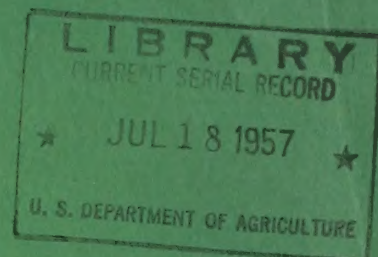


Historic, Archive Document

Do not assume content reflects current
scientific knowledge, policies, or practices.

96
31 Set
eserve

✓✓✓
Sedimentation Bulletin Number 6
April 1957



SUMMARY OF
RESERVOIR SEDIMENTATION
SURVEYS MADE
IN THE UNITED STATES
THROUGH 1953

Prepared under the auspices of
✓ Subcommittee on Sedimentation
✓ Inter-Agency Committee on
Water Resources

Compiled by the Corps of Engineers
Department of the Army, and prepared
for publication by the Geological Survey
Department of the Interior

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS
MADE IN THE UNITED STATES THROUGH 1953

Compiled by the Corps of Engineers, Department
of the Army, and prepared for publication by
the Geological Survey, Department of the
Interior, under auspices of
Subcommittee on Sedimentation
Interagency Committee on Water Resources,
acting in behalf of the following
participating agencies:

DEPARTMENT OF AGRICULTURE
Agricultural Research Service
Forest Service
Soil Conservation Service

DEPARTMENT OF INTERIOR
Bureau of Reclamation
Geological Survey
Bureau of Mines

DEPARTMENT OF COMMERCE
Bureau of Public Roads
Coast and Geodetic Survey

DEPARTMENT OF HEALTH, EDUCATION
AND WELFARE
Public Health Service

DEPARTMENT OF THE ARMY
Corps of Engineers

TENNESSEE VALLEY AUTHORITY

FEDERAL POWER COMMISSION

For sale by the Superintendent of Documents, U. S. Government Printing Office
Washington 25, D. C. - Price 35 cents

April 1957

| | Page |
|--|------|
| Foreword..... | 1 |
| Acknowledgements..... | 2 |
| Explanation of the summary table | 2 |
| Form for reporting reservoir sedimentation..... | 3 |
| Tabulation - Summary of reservoir sedimentation surveys made in the United States..... | 4 |
| Sample form of reservoir sedimentation data | 43 |
| Map - Index of river basin maps | 47 |

SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS

MADE IN

THE UNITED STATES

THROUGH 1953

NOTE

This bulletin is the sixth of a series issued by the agencies represented on the Subcommittee on Sedimentation. The series is intended as a medium for dissemination of the results of specific work projects of the subcommittee, and for general information on work being undertaken in the sedimentation field by the agencies on the subcommittee.

Copies of these bulletins may be obtained, for administrative use only, from agencies listed as subcommittee members. Bulletins previously issued by the Subcommittee on Sedimentation are listed as follows:

- | | |
|---|---------------|
| Bulletin No. 1 --INVENTORY OF PUBLISHED AND UNPUBLISHED SEDIMENT-LOAD DATA IN THE UNITED STATES | April 1949 |
| Bulletin No. 2 --ANNOTATED BIBLIOGRAPHY ON SEDIMENTA- TION | February 1950 |
| Bulletin No. 3 --PRELIMINARY CHECK LIST OF RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES TO APRIL 1, 1950 (Superseded by Bulletin No. 6) | May 1950 |
| Bulletin No. 4 --INVENTORY OF PUBLISHED AND UNPUBLISHED SEDIMENT-LOAD DATA IN THE UNITED STATES SUPPLEMENT--1946 to 1950 | April 1952 |
| Bulletin No. 5 --SUMMARY OF RESERVOIR SEDIMENTATION SURVEYS FOR THE UNITED STATES THROUGH 1950 (Superseded by Bulletin No. 6.) | August 1953 |
| Joint Hydrology--Sedimentation Bulletin No. 7--ANNOTATED BIBLIOGRAPHY ON HYDROLOGY 1951-54 AND SEDIMENTATION 1950-54 (United States and Canada.) | December 1955 |

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS
MADE IN THE UNITED STATES
THROUGH 1953

FOREWORD

This bulletin, together with the appendix, is a presentation of the results of all known, reliable, sedimentation surveys made in the United States through 1953. The purpose of the bulletin is to make readily available the more pertinent data on reservoir sedimentation which would otherwise remain in the archives of the agencies making the surveys. Included in the bulletin is a summary table listing the names of the reservoirs on which sedimentation surveys have been made, together with information relative to location, drainage area, rate of sediment accumulation and related information of general interest. Information has been assembled on 704 reservoirs. These reservoirs are located in 39 states and Puerto Rico; there being no surveys reported for Delaware, Florida, New Jersey, North Dakota and the six New England States. In addition to the data on storage reservoirs and stock ponds some information is included on debris basins.

Sedimentation Bulletin Number 5 presented a summary of reservoir sedimentation surveys made through 1950. Experience with the application of data in Bulletin Number 5 suggested minor change in format that were adapted in this bulletin. Accordingly, all reservoir surveys reported in Bulletin Number 5 have been repeated in this bulletin. The appendix from which the data were extracted for this bulletin and Bulletin Number 5 contains detailed information about each of the reservoir surveys listed in the summary tables. The appendix is not being distributed to all recipients of this bulletin because of its bulk and because the detailed information is not of general interest. However, copies of the appendix are available for inspection in the Washington, D. C., offices and in many of the field offices of the agencies represented on the Subcommittee on Sedimentation. Copies may also be obtained on a loan basis from these agencies.

An example of the form of presentation of the detailed information contained in the appendix is given on pages 43 and 44 of this bulletin. A similar data sheet is included in the appendix for each reservoir listed in the summary table.

The basic data vary in relative accuracy. The surveys range from reconnaissance measurements of depth of deposition at a few locations in a reservoir to detailed surveys which include frequent cross sections or complete contour mapping. No classification of relative accuracy has been attempted in this bulletin.

It is anticipated that the results of new surveys or resurveys of reservoirs will be presented from time to time as supplements to this bulletin. Revised sedimentation data sheets for these reservoirs will also be distributed to recipients of the appendix so that copies of the appendix may be kept up to date.

It is hoped that the information in this bulletin and in the appendix will prove useful to many engineers in public and private practice who are interested in problems of reservoir sedimentation. It is also hoped that private engineers and engineering firms and local government agencies who have data on similar reservoir surveys will make this information available to the subcommittee for inclusion in supplements to this bulletin.

Work Group on Sedimentation in Reservoirs
L. C. Gottschalk, Soil Conservation Service
James Smallshaw, Tennessee Valley Authority
V. A. Koelzer, Bureau of Reclamation
W. D. Romig, Bureau of Reclamation
R. B. Vice, U. S. Geological Survey
B. L. Hobbs, Chairman, Corps of Engineers

ACKNOWLEDGEMENTS

The preparation of data sheets in the form required for the appendix has been accomplished by the efforts of personnel in many offices of Federal, State, and local agencies. The initial phase of inaugurating the data collection program and final phases of compiling data for the summary table in the bulletin, preparing typed sheets for the offset reproduction, and the cost of reproduction have been undertaken by the Washington, D. C., offices of the agencies listed on the title page. The efforts of the field offices which have been primarily responsible for the collection of data are gratefully acknowledged.

EXPLANATION OF THE SUMMARY TABLE

Data in the summary table of the bulletin have been obtained from the reservoir sedimentation data sheets contained in the appendix. Dashes in columns of the table signify absence of data, or that the column is not applicable for the reservoir.

Reservoirs are grouped according to the 79 drainage areas into which the United States has been divided as shown in the publication, "River Basin Maps Showing Hydrologic Stations," compiled under the auspices of the Subcommittee on Hydrology, Federal Inter-Agency River Basin Committee. An index map of these drainage areas is shown on page 47 of this bulletin. In the summary table of this bulletin, the drainage areas in which the reservoirs are located are shown as subheadings. The first of the two numbers identifying a reservoir indicates the drainage area in which it is located. The second number denotes the particular reservoir in the drainage area and is based upon the order in which the data were prepared. These numbers are the same as those identifying the corresponding data sheets in the appendix. When an appendix sheet is revised or when another sheet is prepared with information for additional surveys the identification number is shown alphabetically, for example 13-2a modified by the addition of letters beginning with a; for example 13-2, 13-2a, 13-2b, etc.

Total drainage area includes the reservoir area and the area lying above all upstream dams but generally excludes non-contributing drainage areas lying within the basin boundary. Where available, the drainage area figure published by the U. S. Geological Survey in Water Supply Papers is used in most instances. The net drainage area is the net sediment-contributing area and excludes the reservoir area and the drainage areas above the upstream reservoirs which are effective sediment traps.

The date of the initial survey is generally shown as that corresponding to the initial storage of water before or during the period of diversion at which time it is considered that the trap efficiency first became appreciable. In other cases the initial date represents the date of the contour or range survey made after the reservoir was in operation for some time; most of these cases are clarified by explanatory foot notes.

The storage capacity is the total storage below the level of the crest of an ungated spillway or the top of gates (less gate-height freeboard if any) of gated spillways.

The capacity-watershed ratio (c/w) is derived from the corresponding storage value as discussed above. The watershed area is the entire flow-contributing drainage area. A dash is shown if upstream reservoirs which have a c/w ratio of more than 25 acre-feet per square mile control more than 25 percent of the drainage area.

The specific weight of deposited sediment is an average or weighted value for the reservoir, determined generally from samples of deposits. In view of the variations of specific weight with depth of the sample and with the location in the reservoir, the determination of a mean specific weight is generally an approximation for the reservoir. If the entry is marked by an asterisk, the specific weight is not obtained from measurements but is assumed or is calculated from field data of the size-frequency grading of the deposits and a chart relating size-frequency with specific weight.

The rate of sediment accumulation pertains to sediment deposited in the reservoir below the full pool elevation but does not include the sediment deposited in deltas above full pool level or sediment discharged from the reservoir. It was assumed that all of the deposited sediment was transported into the reservoir by flowing water.

FORM FOR REPORTING RESERVOIR SEDIMENTATION

On pages 43 and 44 of this bulletin is a completed sample of the reservoir sedimentation data sheet from the appendix. This sheet is a convenient and standard form for reporting results of surveys. An invitation is extended herewith to readers, particularly those practicing engineering individually, in engineering firms, or in local government agencies, to prepare sheets covering surveys known to them but not included in this bulletin. A blank form is inclosed as a tear sheet of this bulletin and additional forms may be obtained from the Washington offices of the agencies listed on the title page or the form may be reproduced if desired. The completed forms may be sent to any one of the agencies represented on the Subcommittee on Sedimentation for inclusion in supplements to this bulletin.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|------------------------------------|-----------------------------------|------------------------|-------------------------------|-------|----------------|---------------------------------|-----------------------------|---|--|--|--------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| ST. JOHN, MACHIAS, PENOBSCOT, KENNEBEC, ANDROSCOGGIN, AND PRESUMPSHOT RIVER BASIN | | | | | | | | | | | | |
| 1- | | | | | | | | | | | | |
| 2- | | | | | | | | | | | | |
| 3-1 | Schoharie (Gilboa Dam)..... | Schoharie Cr..... | Prattsville, N. Y..... | 314 | 312.3 | Aug. 1926 | 23.8 | 63,821 | 203 | -- | -- | |
| |do..... |do..... |do..... | -- | -- | May 1950 | | 62,702 | 200 | *60 | 1/0.166 | 1/217 |
| HOUSATONIC, CONNECTICUT, THAMES, AND MERRIMACK RIVER BASINS | | | | | | | | | | | | |
| HUDSON RIVER BASIN AND ST. LAWRENCE DRAINAGE IN NEW YORK | | | | | | | | | | | | |
| 4-1 | Lock Raven..... | Gunpowder Falls River..... | Towson, Md..... | 303 | 299.4 | 1914 | -- | 65,821 | 217 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Oct. 1943 | 29 | 60,466 | 200 | *60 | 0.618 | 808 |
| 4-2 | Prettyboy..... |do..... | Hereford, Md..... | 80 | 77.5 | Apr. 1933 | -- | 60,333 | 754 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Oct. 1943 | 10.5 | 59,764 | 747 | *60 | .699 | 913 |
| 4-3 | Griffin..... | Griffin Creek (Legget)..... | Scranton, Pa..... | 3.21 | 3.04 | -- 1888 | -- | 1,991 | 620 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | May 1941 | 53 | 1,953 | 608 | -- | .237 | -- |
| 4-4 | Elmhurst..... | Roaring Brook..... |do..... | 34.85 | 34.55 | -- 1890 | -- | 3,746 | 108 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | May 1941 | 51 | 3,686 | 106 | -- | .034 | -- |
| 4-5 | Lake Williams..... | Codorus Creek..... | York, Pa..... | 42.9 | 42.6 | -- 1912 | -- | 2,686 | 62.6 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Apr. 1939 | 27 | 2,232 | 52.1 | 49.1 | .394 | 421 |
| 4-6 | Williams Bridge..... | Stafford Meadow Brook..... | Scranton, Pa..... | 5.0 | 4.94 | -- 1893 | -- | 1,051 | 210 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | May 1941 | 48 | 1,046 | 209 | -- | .022 | -- |
| 4-7 | Atkisson..... | Winters Run..... | Belair, Md..... | 45.46 | 45.35 | May 1942 | -- | 886 | 19.7 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | May 1954 | 12 | 705 | 15.5 | *60 | .351 | 459 |
| SUSQUEHANNA AND DELAWARE RIVER BASINS | | | | | | | | | | | | |
| POTOMAC, RAPPAHANNOCK, YORK, AND JAMES RIVER BASINS | | | | | | | | | | | | |
| 5-1 | Barcroft..... | Holmes Run..... | Alexandria, Va..... | 14.5 | 14.3 | Jan. 1915 | -- | 1,847 | 127 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Feb. 1938 | 23.1 | 1,762 | 122 | *60 | 0.257 | 336 |
| 5-2 | Pedlar..... | Pedlar River..... | Oronoco, Va..... | 33.21 | 33.07 | Feb. 1907 | -- | 1,860 | 56 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Feb. 1938 | 31 | 1,723 | 52 | -- | .134 | -- |
| 5-3 | Burnt Mills..... | N. W. Branch Anacostia River..... | Silver Spring, Md..... | 27.0 | 26.97 | May 1930 | -- | 181 | 6.70 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Mar. 1938 | 7.8 | 95 | 3.52 | *60 | .408 | 533 |
| 5-4 | Greenbelt Lake..... | Trib. of Indian Creek..... | Berwin, Md..... | .83 | .79 | July 1936 | -- | 196 | 236 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Feb. 1938 | 1.6 | 186 | 224 | *60 | 7.91 | 10,337 |
| 5-5 | Staunton..... | North River..... | Staunton, Va..... | 25 | 25 | Dec. 1925 | -- | 385 | 15.4 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Jan. 1940 | 14 | 373 | 14.9 | -- | .034 | -- |
| 5-6 | Jackson..... | Ocoquan Creek..... | Manassas, Va..... | 337 | 336.4 | July 1930 | -- | 4,500 | 13.4 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Aug. 1947 | 7.2 | 4,158 | 12.3 | *60 | .141 | 184 |
| 5-7 | Tridelpia Lake (Brighton Dam)..... | Patuxent River..... | Ashton, Md..... | 81.4 | 80.08 | June 1922 | -- | 20,222 | 248 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Oct. 1950 | 8.3 | 20,089 | 247 | *50 | .20 | 218 |
| 5-8 | Gordon Lake..... | Evitts Creek..... | Cumberland, Md..... | 64 | 2/4 | Sept. 1913 | -- | 3,129 | 48.9 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Apr. 1940 | 26.6 | 3,004 | 46.9 | -- | 3/.090 | -- |
| 5-9 | Thomas W. Koon Lake..... |do..... |do..... | 60 | 59.6 | Mar. 1932 | -- | 7,312 | 122 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Apr. 1940 | 8.1 | 7,294 | 122 | -- | .036 | -- |

| | | | | | | | | | | | |
|------|-------------------------------|-------------------------|------------------------|-------|-------|------------|-------|--------|------|------|---------|
| 6-1 | Lake Apex..... | Swift Creek..... | Apex, N. C..... | -- | -- | 1925 | -- | 106 | 26.5 | -- | -- |
| | do..... | do..... | do..... | 4.0 | 4.0 | June 1941 | 16 | 94 | 23.5 | -- | 0.19 |
| 6-2 | Franklinton..... | Sallie Keany Creek..... | Franklinton, N. C..... | -- | -- | Jan. 1925 | -- | 34.7 | 30.7 | -- | -- |
| | do..... | do..... | do..... | 1.13 | 1.12 | May 1938 | 13.3 | 27.3 | 24.2 | 67 | 3/ .509 |
| 6-3 | Greensboro (Lake Brandt)..... | Reedy Fork..... | Greensboro, N. C..... | 74.1 | 73.4 | Feb. 1923 | -- | 2,870 | 38.7 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1934 | 11.5 | 2,610 | 35.2 | *60 | 402 |
| 6-4 | Highpoint..... | Deep River..... | Highpoint, N. C..... | 62.8 | 62.3 | Jan. 1928 | -- | 4,354 | 69.3 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1934 | 6.5 | 4,135 | 65.8 | 50.6 | 596 |
| | do..... | do..... | do..... | -- | -- | Apr. 1938 | 3.75 | 4,038 | 64.3 | -- | 458 |
| | do..... | do..... | do..... | 167.5 | 166.7 | Apr. 1926 | -- | 12,671 | 75.6 | -- | -- |
| 6-5 | Lake Michie..... | Fiat River..... | Durham, N. C..... | -- | -- | Jan. 1935 | 8.75 | 12,276 | 73.3 | -- | .271 |
| | do..... | do..... | do..... | 3.75 | 3.73 | Feb. 1927 | -- | 103 | 27.5 | -- | -- |
| 6-6 | Sanford City..... | Lick Creek..... | Sanford, N. C..... | -- | -- | June 1941 | 14.33 | 95 | 25.3 | -- | .150 |
| | do..... | do..... | do..... | 30.6 | 30.3 | June 1932 | -- | 1,915 | 62.6 | -- | -- |
| 6-7 | University Lake..... | Morgan Creek..... | Chapel Hill, N. C..... | -- | -- | Apr. 1935 | 2.9 | 1,851 | 60.5 | -- | .728 |
| | do..... | do..... | do..... | 7.62 | 7.52 | Apr. 1924 | -- | 531.2 | 69.7 | -- | -- |
| 6-8 | Roxboro City Lake..... | Satterfield Creek..... | Roxboro, N. C..... | -- | -- | June 1941 | 17.2 | 460.3 | 60.4 | -- | .548 |
| | do..... | do..... | do..... | -- | -- | Nov. 1946 | 5.4 | 448.4 | 58.8 | -- | 5/ .342 |
| | do..... | do..... | do..... | 105.2 | 105.0 | June 1928 | -- | 1,488 | 14.1 | -- | -- |
| 6-9 | Burlington Municipal..... | Stony Creek..... | Burlington, N. C..... | -- | -- | May 1938 | 10.0 | 1,325 | 12.6 | 63 | .155 |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 11.3 | 1,202 | 11.4 | -- | .104 |
| 6-10 | Walnut Cove..... | Dan River..... | Walnut Cove, N. C..... | 397 | 397 | -- | -- | 974 | 2.45 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1932 | 9 | 209 | .53 | 43 | .214 |

PEE DEE, SANTEE, AND EDISTO RIVER BASINS

| | | | | | | | | | | | |
|------|-----------------------------|-----------------------------|------------------------|-------|--------|------------|-------|---------|-------|-------|------|
| 7-1 | Chester..... | Sandy River..... | Chester, S. C..... | 16.05 | 15.92 | Nov. 1926 | -- | 682 | 42 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1937 | 11 | 585 | 36 | -- | 0.55 |
| 7-2 | Lancaster..... | Turkey Quarter Creek..... | Lancaster, S. C..... | 9.40 | 9.34 | Feb. 1925 | -- | 242 | 25.7 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1938 | 13.4 | 190 | 20.2 | 65.3 | .417 |
| 7-3 | Spartanburg Municipal..... | South Pacolet River..... | Fingerville, S. C..... | 91.33 | 90.8 | May 1926 | -- | 3,506 | 38.4 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1934 | 8.2 | 3,199 | 35.0 | -- | .412 |
| | do..... | do..... | do..... | -- | -- | Mar. 1897 | 12.7 | 2,891 | 31.7 | -- | .268 |
| 7-4 | Appalachie..... | South Tyger River..... | Greer, S. C..... | 63.0 | 62.8 | -- | 1904 | 2,500 | 40.0 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1934 | 30 | 1,600 | 25.0 | -- | .48 |
| 7-5 | Albemarle City Lake..... | Long Creek..... | Albemarle, N. C..... | 33.0 | 32.5 | Feb. 1924 | -- | 1,070 | 32.4 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1939 | 15.5 | 918 | 27.8 | -- | .302 |
| 7-6 | Cannon Lake..... | Buffalo Creek..... | Kannapolis, N. C..... | 18.0 | 17.7 | July 1939 | -- | 2,600 | 144 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1941 | 1.9 | 2,574 | 143 | -- | .774 |
| 7-7 | Lake Concord..... | Chambers & Rose Branch..... | Kannapolis, N. C..... | 4.7 | 4.54 | Mar. 1925 | -- | 1,201 | 256 | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1935 | 10.2 | 1,122 | 239 | -- | 1.71 |
| 7-8 | Entwistle No. 3..... | Hitchcock Creek..... | Robertelli, N. C..... | 168.0 | 6/18.0 | -- | 1892 | 184 | 1.10 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1940 | 48.0 | 163 | .97 | -- | .024 |
| 7-9 | Eury..... | Little River..... | Troy, N. C..... | 269 | 269 | -- | 1915 | 1,104 | 4.10 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1940 | 25.0 | 976 | 3.63 | -- | .019 |
| 7-10 | High Rock..... | Yadkin River..... | Salisbury, N. C..... | 3,930 | 3,863 | Nov. 1927 | -- | 289,432 | 73.6 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1935 | 7.8 | 275,516 | 70.1 | -- | .462 |
| 7-11 | Lake Lee..... | Richardson Creek..... | Munroe, N. C..... | 50.50 | 50.34 | Apr. 1927 | -- | 821 | 16.3 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1938 | 11.1 | 652 | 12.9 | 61.8 | .302 |
| 7-12 | Pee Dee Mfg. Co. | Hitchcock Creek..... | Rockingham, N. C..... | 176 | 6/25 | -- | 1874 | 464 | 2.64 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1940 | 66 | 404 | 2.29 | -- | .036 |
| 7-13 | Salem..... | Salem Creek..... | Winston-Salem, N. C... | 27.68 | 27.26 | Nov. 1919 | -- | 3,089 | 112.0 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1939 | 19.8 | 2,860 | 103.0 | 38.0 | .444 |
| 7-14 | Norwood Lake (Tillery)..... | Pee Dee River..... | Mt. Gilead, N. C..... | 4,600 | 7/431 | July 1928 | -- | 136,823 | 30 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar 1940 | 11.75 | 133,300 | 29 | -- | .696 |
| 7-15 | Lexington..... | Leonards Creek..... | Lexington, N. C..... | 6.75 | 6.66 | Aug. 1935 | -- | 462 | 68.4 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1940 | 4.6 | 441 | 65.3 | 45.5 | .692 |
| | do..... | do..... | do..... | -- | -- | May 1951 | 11.1 | 419 | 62.1 | *45.5 | .299 |

1/Includes estimated 112 acre-feet passing through Shandaken Tunnel.
2/Koon Lake, upstream, was built in 1932.
3/Based on total sediments in both Gordon Lake and Koon Lake.
4/Based on total of 7.4 acre-feet of sediment remaining in reservoir; 0.2 acre foot of sand removed in 1933.
5/ Excluding 2.04 acre-feet of sediment dredged from lake in March 1942.
6/Leadbetters Dam upstream.
7/Narrows Dam upstream.
* Estimated or assumed.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|-----------------------------|--------------------------|-----------------------|-------------------------------|---------|----------------|---------------------------------|-----------------------------|---|--|--|---------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| SAVANNAH, OGEECHEE, AND ALTAMAHA RIVER BASINS | | | | | | | | | | | | |
| 8-1 | Lake Issaquena..... | Six Mile Creek..... | Clemson, S. C..... | 14.02 | -- | June 1938 | -- | 1,836 | 131 | -- | -- | -- |
| | do..... | do..... | do..... | -- | 13.84 | Apr. 1941 | 2.9 | 1,748 | 125 | 49.82 | 2.22 | 2,410 |
| | do..... | do..... | do..... | -- | 13.86 | Oct. 1949 | 8.5 | 1,626 | 116 | 50.9 | 1.03 | 1,140 |
| 8-2 | Lloyd Shoals..... | Ocmulgee River..... | Jackson, Ga..... | 1,414 | 1,407 | Dec. 1910 | -- | 112,538 | 79.6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1935 | 24.3 | 98,578 | 69.7 | *60 | .408 | 533 |
| SATILLA, ST. MARYS, ST. JOHNS, AND SUWANNEE RIVER BASINS | | | | | | | | | | | | |
| 9- | | | | | | | | | | | | |
| 10- | | | | | | | | | | | | |
| SOUTHERN FLORIDA DRAINAGE | | | | | | | | | | | | |
| APALACHICOLA AND OCHLOCKNEE RIVER BASINS | | | | | | | | | | | | |
| 11-1 | Newnan..... | Bolton Mill Creek..... | Newnan, Ga..... | 1.39 | 1.34 | June 1924 | -- | 384 | 276 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1937 | 13.4 | 358 | 258 | *50 | 1.45 | 1,580 |
| | do..... | do..... | do..... | -- | -- | Feb. 1945 | 7.3 | 354 | 255 | -- | .41 | 446 |
| CHOCTAWHATCHEE, YELLOW, ESCAMBIA, AND ALAMBA RIVER BASINS | | | | | | | | | | | | |
| 12-1 | Seguoyah..... | Small Branches..... | Jasper, Ga..... | 1.60 | 1.51 | July 1929 | -- | 890 | 556 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1939 | 10.0 | 865 | 541 | -- | 1.66 | -- |
| 12-2 | White Manganeese No. 6..... | Pettit Creek..... | Cartersville, Ga..... | 12.46 | 1/11.0 | Oct. 1929 | -- | 1,021 | 31.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1938 | 9.2 | 900 | 72.2 | 2/63.7 | 2/1.20 | 2/1,660 |
| 12-3 | Lake Auburn..... | Town Creek..... | Auburn Ala..... | 1.6 | 1.6 | Feb. 1931 | -- | 102 | 63.8 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1937 | 6.3 | 95 | 59.4 | -- | .66 | -- |
| 12-4 | Lay..... | Coosa River..... | Clanton, Ala..... | 9,087 | 9,076.5 | Dec. 1913 | -- | 156,525 | 17.2 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1936 | 22.3 | 138,520 | 15.2 | -- | .089 | -- |
| 12-5 | Lake Purdy..... | Little Cahaba River..... | Birmingham, Ala..... | 41.74 | 40.22 | Sept. 1910 | -- | 19,080 | 457 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1935 | 25.2 | 18,594 | 445 | -- | .479 | -- |

LOWER MISSISSIPPI RIVER BASIN (NATCHEZ TO THE MOUTH)
Calcasieu, Mermentau, and Vermilion River Basins

LOWER MISSISSIPPI RIVER BASINS (HELENA TO NATCHEZ)

Yazoo, Big Black, and Ouachita River Basins

| | | | | | | | | | | | |
|-------|-----------------------------------|--------------------------|---------|------------|------|-----------|-------|----|-------|--------|----------|
| 15-1 | Lake Hamilton..... | Hot Springs, Ark..... | 1,413.4 | Dec. 1930 | -- | 156,345 | 110 | -- | -- | -- | -- |
| | do..... | do..... | -- | May 1950 | 19.4 | 153,279 | 108 | -- | 0.11 | -- | 120 |
| 15-2 | Lake Winona..... | Little Rock, Ark..... | 43.0 | Oct. 1937 | -- | 34,533 | 803 | -- | -- | -- | -- |
| | do..... | do..... | -- | May 1950 | 12.6 | 34,340 | 799 | -- | 0.37 | -- | 403 |
| 15-3 | O. P. White Pond..... | Holly Springs, Miss..... | .0097 | Oct. 1947 | -- | 1.46 | 150 | -- | -- | -- | -- |
| | do..... | do..... | -- | Jan. 1951 | 3.3 | 1.07 | 111 | -- | 63.65 | 13.1 | 18,200 |
| 15-4 | B. H. Hommesucker Pond..... | Slayden, Miss..... | .0625 | Jan. 1947 | -- | 12.0 | 192 | -- | -- | -- | -- |
| | do..... | do..... | -- | Jan. 1951 | 4.0 | 8.35 | 134 | -- | 60.09 | 2/15.3 | 2/20,000 |
| 15-5 | G. S. Hordie Pond..... | do..... | .244 | Dec. 1946 | -- | 36.4 | 149 | -- | -- | -- | -- |
| | do..... | do..... | -- | Jan. 1951 | 4.1 | 29.0 | 119 | -- | 62.9 | 2/7.78 | 2/10,700 |
| 15-6 | Agnes Jones Pond..... | Holly Springs, Miss..... | .0478 | Oct. 1946 | -- | 8.80 | 184 | -- | -- | -- | -- |
| | do..... | do..... | -- | Jan. 1951 | 4.3 | 6.40 | 134 | -- | 62.27 | 2/12.4 | 2/18,200 |
| 15-7 | Lee Johnson Pond..... | do..... | .0833 | Sept. 1948 | -- | 17.8 | 214 | -- | -- | -- | -- |
| | do..... | do..... | -- | Jan. 1951 | 2.3 | 14.8 | 178 | -- | 76.13 | 16.6 | 27,500 |
| 15-8 | P. T. McAlexander..... | do..... | .0139 | Aug. 1942 | -- | 2.46 | 177 | -- | -- | -- | -- |
| | do..... | do..... | -- | Jan. 1951 | 8.5 | 1.11 | 79.9 | -- | 84.24 | 2/12.4 | 2/22,800 |
| 15-9 | Lake Shakoka..... | Olive Branch, Miss..... | .4153 | Jan. 1934 | -- | 306 | 737 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 17.0 | 256 | 616 | -- | 61.65 | 2/8.03 | 2/10,800 |
| 15-10 | Lake Woodland..... | do..... | .5045 | Feb. 1951 | -- | 94 | 186 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 6.0 | 78.1 | 151 | -- | 39.9 | 5.56 | 4,800 |
| 15-11 | C. L. Patton Pond..... | Warsaw, Miss..... | .1019 | Feb. 1942 | -- | 15.9 | 156 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 9.0 | 12.1 | 119 | -- | 66.8 | 4.48 | 6,520 |
| 15-12 | C. B. Langston, Jr., Pond..... | do..... | .0156 | Feb. 1946 | -- | 12.3 | 788 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 35.0 | 9.66 | 619 | -- | 63.3 | 2/6.55 | 2/9,040 |
| 15-13 | Fletcher Hurdle Pond (North)..... | Victoria, Miss..... | .0406 | Feb. 1947 | -- | 4.61 | 114 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 4.6 | 2.67 | 65.8 | -- | 63.0 | 2/12.5 | 2/17,100 |
| 15-14 | Fletcher Hurdle Pond (South)..... | do..... | .0297 | Feb. 1947 | -- | 5.48 | 185 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 4.0 | 3.61 | 122 | -- | 83.05 | 16.8 | 2/30,400 |
| 15-15 | C. C. Stevenson Pond..... | Holly Springs, Miss..... | .0342 | Aug. 1948 | -- | 6.47 | 189 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 2.7 | 4.23 | 124 | -- | 78.8 | 26.0 | 44,600 |
| 15-16 | Gayoso Lake..... | Horn Lake, Miss..... | .2196 | Feb. 1942 | -- | 58.7 | 267 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 9.0 | 53.0 | 241 | -- | 51.85 | 3.13 | 3,530 |
| 15-17 | Ben O. Pettis Pond..... | Oxford, Miss..... | .0075 | Feb. 1916 | -- | 1.63 | 217 | -- | -- | -- | -- |
| | do..... | do..... | -- | Feb. 1951 | 35.0 | 1.07 | 143 | -- | 58.72 | 2/2.39 | 2/ 3,060 |
| 15-18 | C. D. Williams Pond..... | do..... | .0450 | Mar. 1928 | -- | 9.93 | 221 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 23.0 | 6.70 | 149 | -- | 55.72 | 2/3.35 | 2/4,070 |
| 15-19 | R. X. Williams..... | Taylor's Miss..... | .0239 | Sept. 1946 | -- | 4.48 | 187 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 4.5 | 2.54 | 106 | -- | 47.74 | 20.5 | 21,300 |
| 15-20 | Henry W. Ramsey Pond..... | Oxford, Miss..... | .1375 | Jan. 1933 | -- | 31.0 | 225 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 13.2 | 24.9 | 181 | -- | 41.95 | 2.61 | 2,370 |
| 15-21 | Dr. Bramlett Pond..... | do..... | .8672 | Jan. 1937 | -- | 227 | 262 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 14.2 | 214 | 247 | -- | *37 | 1.12 | 913 |
| 15-22 | A. S. Kyle Pond..... | Batesville, Miss..... | .0456 | Mar. 1945 | -- | 17.4 | 382 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 6.0 | 16.6 | 364 | -- | 52.04 | 3.14 | 3,560 |
| 15-23 | Ben P. Smith Pond..... | Holly Springs, Miss..... | .0278 | July 1947 | -- | 3.77 | 136 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 3.7 | 3.29 | 118 | -- | 67.58 | 2/4.89 | 2/7,200 |
| 15-24 | A. L. Rodman Pond..... | Arkabutla, Miss..... | .1563 | Sept. 1945 | -- | 30.5 | 195 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 5.5 | 29.0 | 186 | -- | *50 | 1.95 | 2,120 |
| 15-25 | Charles Dockery Pond..... | Eudora, Miss..... | .0644 | Jan. 1946 | -- | 23.0 | 357 | -- | -- | -- | -- |
| | do..... | do..... | -- | Mar. 1951 | 5.2 | 22.0 | 342 | -- | *44 | 3.60 | 3,420 |
| 15-26 | Arkabutla..... | Coldwater River..... | 1,000 | Aug. 1941 | -- | 3/525,300 | 3/525 | -- | -- | -- | -- |
| | do..... | do..... | -- | Dec. 1947 | 6.3 | 521,540 | 522 | -- | .630 | -- | -- |

LOWER MISSISSIPPI RIVER BASIN (CHESTER TO HELENA)

St. Francis River Basin

| | | | | | | | | | | | |
|------|------------------------|---------------------------|--------------------|------|-----------|------|-------|------|------|---------|---------|
| 16-1 | Grisham..... | Lost Creek..... | Bismark, Mo..... | 0.46 | Oct. 1930 | -- | 24.05 | 52.3 | -- | -- | -- |
| | do..... | do..... | do..... | -- | July 1939 | 8.8 | 19.56 | 42.5 | 75.4 | 2/1.133 | 2/1,860 |
| 16-2 | Mountain Lake..... | Trib of Rings Creek..... | Patterson, Mo..... | 1.90 | -- | 1927 | 87.7 | 46.2 | -- | -- | -- |
| | do..... | do..... | do..... | -- | July 1939 | 12 | 82.9 | 43.6 | 54.8 | .213 | 254 |
| 16-3 | Shepherd Mountain..... | Trib of Stouts Creek..... | Ironton, Mo..... | 3.99 | -- | 1929 | 171 | 42.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | July 1939 | 10 | 158 | 39.5 | 64 | .338 | 471 |

1/Drainage above Reservoir No. 3 excluded.

2/Values based on below-crest deposits; values for above-crest deposits are given in appendix summaries.

3/Values from April 1939 contour survey.

4/With 5-foot flashboards added in 1947.

*Estimated or assumed.

SUMMARY OF

RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|--|------------------------------|------------------------------|--------------------------|-------------------------------|-------|--------------------------|---------------------------------|-----------------------------|---|------------------------------------|--|-------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| LOWER MISSISSIPPI RIVER BASIN (CHESTER TO HELENA) St. Francis River Basin (continued) | | | | | | | | | | | | |
| 16-4 | Loch Mary..... | Brown Creek..... | Earlington, Ky..... | 3.81 | 3.65 | -- 1888 | -- | 1,228 | 322 | -- | -- | -- |
| 16-5 | do..... | do..... | do..... | -- | -- | Dec. 1908 ^{1/2} | 20 | 1,184 | 311 | +60 | 0.600 | 784 |
| | Carbondale..... | Piles Fork..... | Carbondale, Ill..... | 3.00 | 2.77 | Aug. 1926 | -- | 1,386 | 462 | -- | -- | -- |
| 16-6 | do..... | do..... | do..... | -- | -- | Sept. 1948 | 22.1 | 1,193 | 398 | 73.9 | 3.15 | 5,070 |
| | Dering Coal Co. Pond..... | Trib. of Wolf Creek..... | Eldorado, Ill..... | .219 | .206 | -- 1919 | -- | 89.3 | 408 | -- | -- | -- |
| 16-7 | do..... | do..... | do..... | -- | -- | Oct. 1949 | 30 | 73.0 | 333 | +76 | .68 | 4,370 |
| | Eldorado..... | Wolf Creek..... | do..... | 2.23 | 1.87 | Oct. 1920 | -- | 844.4 | 378 | -- | -- | -- |
| 16-8 | do..... | do..... | do..... | -- | -- | Oct. 1949 | 29 | 726.0 | 326 | +67 | 2.18 | 3,180 |
| | West Frankfort..... | Tilley Creek..... | West Frankfort, Ill..... | 4.03 | 3.75 | Aug. 1926 | -- | 1,608.4 | 399 | -- | -- | -- |
| 16-9 | do..... | do..... | do..... | -- | -- | Sept. 1936 | 10.1 | 1,515.0 | 376 | -- | 2.46 | -- |
| | do..... | do..... | do..... | -- | -- | July 1949 | 12.8 | 1,487.8 | 369 | -- | 0.933 | -- |
| 16-10 | Pineview (Lower)..... | South Fork Jonaca Creek..... | Farmington, Mo..... | .63 | .07 | -- 1932 | -- | 8.9 | 13.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1939 | 7 | 8.2 | 12.8 | +60 | 1.43 | 1,870 |
| 16-11 | Pineview (Middle)..... | do..... | do..... | .56 | .06 | -- 1930 | -- | 30.9 | 55 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1939 | 9 | 29.1 | 52 | -- | 3.3 | 4,310 |
| 16-12 | Pineview (Upper)..... | do..... | do..... | .49 | .48 | -- 1928 | -- | 8.2 | 16.7 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1938 ^{2/3} | 10 | 5.4 | 11.0 | +65 | .583 | 825 |
| 16-13 | Killarnay..... | Big Creek..... | Annapolis, Mo..... | .51 | .51 | -- 1910 | -- | 818 | 16 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1939 | 29 | 622 | 12 | +60 | .133 | 174 |
| 16-14 | Wappapello..... | St. Francis River..... | Poplar Bluff, Mo..... | 1.310 | 1.206 | July 1940 | -- | 625,000 | 477 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1947 | 7.0 | 624,651 | 477 | -- | .0414 | -- |
| 16-15 | Lake Miller..... | do..... | Mt. Vernon, Ill..... | 4.65 | 4.42 | Feb. 1944 | -- | 1,599 | 344 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1953 | 9.6 | 1,535 | 330 | -- | 47.2 | 1,552 |
| 16-16 | Flucks Lake..... | do..... | Marion, Ill..... | .339 | .316 | -- 1919 | -- | 58.1 | 171 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1951 ^{3/4} | 32 | 46.8 | 138 | -- | 56.6 | 1,368 |
| 16-17 | Baker's Lake..... | do..... | do..... | .26 | .25 | -- 1937 | -- | 24.0 | 92 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1951 | 14 | 21.7 | 84 | -- | 36.8 | 512 |
| 16-18 | Crab Orchard Lake..... | do..... | Carbondale, Ill..... | 171 | 160 | May 1940 | -- | 67,320 | 394 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1951 | 11.2 | 63,894 | 374 | -- | 47.5 | 1,976 |
| 16-19 | Marion..... | Limb Branch..... | Marion, Ill..... | 6.5 | 6.31 | -- 1921 | -- | 705 | 108 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1951 | 30 | 590 | 91 | -- | 34.5 | 458 |
| 16-20 | Little Grassy Lake..... | do..... | Carbondale, Ill..... | 15.7 | 14.2 | Mar. 1942 | -- | 25,741 | 1,640 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1951 ^{3/4} | 9.3 | 25,365 | 1,616 | -- | 38.7 | 2,402 |
| 16-21 | Herrin Reservoir No. 1..... | do..... | Herrin, Ill..... | 1.78 | 1.70 | -- 1913 | -- | 199 | 112 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1951 ^{3/4} | 38 | 178 | 100 | -- | 27.5 | 192 |
| 16-22 | Knights of Pythias Lake..... | do..... | Marion, Ill..... | 33 | 32 | Dec. 1925 | -- | 74.6 | 226 | -- | .32 | 192 |
| | do..... | do..... | do..... | -- | -- | Aug. 1951 ^{3/4} | 25.7 | 64.7 | 196 | -- | 62.9 | 1,671 |

SUMMARY OF

RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|--|---|--------------------------------|---------------------------|-------------------------------|--------|----------------|---------------------------------|-----------------------------|---|--|--|---------|
| | | | | DRAINAGE AREA IN SQUARE MILES | | | | | | | ACRE-FT | TONS |
| | | | | TOTAL | NET | | | | | | | |
| OHIO RIVER BASIN (POINT PLESANT TO MADISON) (Continued) | | | | | | | | | | | | |
| Kanawa, Big Sandy, Licking, Kentucky, Scoito, and Miami River Basins | | | | | | | | | | | | |
| 19-12 | Byllesby..... | New River..... | Byllesby, Va..... | 1,310 | 1,310 | Aug. 1912 | -- | 8,892 | 6.79 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1936 | 23.66 | 3,538 | 2.70 | -- | -- | 1/0.184 |
| 19-13a | O'Shaughnessy..... | Scoito River..... | Dublin, Ohio..... | 988 | 987 | Fall 1925 | -- | 16,673 | 16.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | 2/ 1934 | 9 | 15,604 | 15.8 | *65 | .121 | 171 |
| | do..... | do..... | do..... | -- | -- | 3/ 1942 | 8 | 14,538 | 14.7 | *65 | .135 | 191 |
| 19-14 | Decker Lake..... | Patterson Run..... | Piqua, Ohio..... | 2.33 | 2.30 | July 1951 | 9 | 14,162 | 14.3 | 44.2 | .063 | 60.5 |
| | do..... | do..... | do..... | -- | -- | -- 1940 | -- | 115 | 49 | -- | -- | -- |
| 19-15 | Madison Lake..... | Dear Creek..... | Ohio..... | 57.2 | 57.0 | June 1950 | 10 | 84 | 36 | 51.91 | .913 | 1,032 |
| | do..... | do..... | do..... | -- | -- | Dec. 1946 | -- | 592 | 10.3 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1949 | 2.6 | 530 | 9.37 | 48.2 | .42 | 441 |
| | do..... | do..... | do..... | -- | -- | June 1951 | 2.0 | 507 | 8.86 | 45.5 | .21 | 208 |
| 19-16 | Grant Lake..... | Sterling Run..... | Mt. Orab, Ohio..... | 25.25 | 24.96 | Dec. 1948 | -- | 1,190 | 47 | -- | -- | -- |
| 19-17 | Caldwell Lake..... | Trib. of Stony Creek..... | Waverly, Ohio..... | 1.02 | 1.00 | July 1950 | 1.6 | 1,161 | 46 | 86.6 | .722 | 1,361 |
| | do..... | do..... | do..... | -- | -- | -- 1937 | -- | 88 | 86 | -- | -- | -- |
| 19-18 | Stewart Lake..... | do..... | Chillicothe, Ohio..... | .31 | .30 | Sept. 1949 | 12 | 85 | 83 | *60 | .253 | 331 |
| | do..... | do..... | do..... | -- | -- | -- 1939 | -- | 74 | 239 | -- | -- | -- |
| 19-19 | Pine Lake..... | Tar Hollow Creek..... | Gillespieville, Ohio..... | 2.42 | 2.40 | Sept. 1951 | 12.3 | 71 | 229 | *60 | .87 | 1,137 |
| | do..... | do..... | do..... | -- | -- | -- 1938 | -- | 134 | 55 | -- | -- | -- |
| 19-20 | Kiser Lake..... | Mosquito Creek..... | St. Paris, Ohio..... | 8.73 | 8.14 | Aug. 1950 | 11.7 | 123 | 51 | 68.95 | .396 | 595 |
| | do..... | do..... | do..... | -- | -- | Jan. 1940 | -- | 3,331 | 382 | -- | -- | -- |
| 19-21 | Eversole Run (Trib. arm of O'Shaughnessy Res.)..... | Eversole Run..... | Dublin, Ohio..... | 13.8 | 13.7 | -- 1925 | -- | 384 | 28 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1951 | 26 | 4/295 | 4/22 | 55.5 | .25 | 302 |
| 19-22 | Allen Lake..... | Trib. of Silver Creek..... | Kenton, Ohio..... | .50 | .50 | -- 1938 | -- | 12 | 24 | -- | -- | -- |
| 19-23 | Sylvan Lake (Lower)..... | do..... | do..... | -- | -- | Aug. 1951 | 13 | 10 | 20 | 52.6 | .26 | 298 |
| | do..... | do..... | do..... | 1.85 | 1.39 | -- 1947 | -- | 275 | 149 | -- | -- | -- |
| 19-24 | Sylvan Lake (Upper)..... | do..... | do..... | .40 | .38 | Aug. 1951 | 3.8 | 261 | 141 | 44.8 | 2.73 | 2,664 |
| | do..... | do..... | do..... | -- | -- | -- 1948 | -- | 63 | 158 | -- | -- | -- |
| 19-25 | Hosterman Lake..... | Trib. of Mad River..... | Springfield, Ohio..... | 1.59 | 1.58 | Aug. 1951 | 2.8 | 59 | 147 | *45 | 3.53 | 3,460 |
| | do..... | do..... | do..... | -- | -- | Nov. 1938 | -- | 83 | 52 | -- | -- | -- |
| 19-26 | Reynolds Pond..... | Trib. of Barren Creek..... | Bidwell, Ohio..... | .70 | .70 | Aug. 1951 | 12.7 | 75 | 47 | 66.2 | .38 | 548 |
| | do..... | do..... | do..... | -- | -- | -- 1940 | -- | 18 | 26 | -- | -- | -- |
| 19-27 | Mt. Gilead Lake (Upper)..... | Sams Creek..... | Mt. Gilead, Ohio..... | 8.55 | 5/5.50 | Aug. 1950 | 10 | 15 | 21 | 57.4 | .441 | 551 |
| | do..... | do..... | do..... | -- | -- | -- 1930 | -- | 28 | 3.27 | -- | -- | -- |
| 19-28 | Schott Pond..... | Trib. of Big Walnut Creek..... | Westerville, Ohio..... | .82 | .82 | Oct. 1948 | 18 | 24 | 2.81 | *60 | .039 | 51 |
| | do..... | do..... | do..... | -- | -- | -- 1921 | -- | 7.3 | 9 | -- | -- | -- |
| 19-29 | Lake Alma..... | do..... | Wellston, Ohio..... | .81 | .70 | Aug. 1951 | 30 | 774 | 6 | 57.1 | .10 | 124 |
| | do..... | do..... | do..... | -- | -- | -- 1901 | -- | 774 | 956 | -- | -- | -- |
| 19-30 | Maple Grove Lake..... | Sams Creek..... | Mt. Gilead, Ohio..... | 3.05 | 3.04 | Sept. 1951 | 50 | 28.1 | 9.21 | 55.5 | .84 | 1,015 |
| | do..... | do..... | do..... | -- | -- | -- 1932 | -- | 23.9 | 7.84 | 83.2 | .079 | 143 |
| 19-31 | Pond Lick Lake..... | Pond Lick Run..... | Friendship, Ohio..... | 2.54 | 2.53 | Sept. 1949 | 17 | 48 | 19 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1938 | -- | 39 | 15 | 58.8 | .277 | 355 |
| 19-32 | Wolfden Lake..... | Wolfden Run..... | do..... | .60 | .60 | July 1950 | 12.3 | 25.4 | 42.3 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1936 | -- | 23.1 | 38.5 | 59.92 | .272 | 355 |
| 19-33 | Bear Lake..... | Left Fork Bear Creek..... | do..... | .48 | .47 | July 1950 | 14.3 | 33 | 68.8 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1937 | -- | 32 | 66.6 | 67.02 | .194 | 283 |
| 19-34 | McBride Lake..... | Trib. of Pond Run..... | do..... | .61 | .61 | July 1950 | 15.3 | 13 | 21.3 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1937 | -- | 11 | 18.0 | 34.01 | .225 | 167 |
| 19-35 | Roosevelt Lake..... | Turkey Creek..... | do..... | 16.38 | 15.76 | July 1950 | 13.3 | 101 | 6.17 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1935 | -- | 67 | 4.09 | 61.0 | .140 | 186 |
| 19-36 | Adams Lake..... | Lick Creek..... | West Union, Ohio..... | 4.45 | 4.39 | July 1950 | 15.3 | 318 | 71 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1947 | -- | 304 | 68 | 53.24 | .895 | 1,038 |

| | | | | | | | | | | | | |
|-------|--------------------|---------------------------------------|-----------------------|------|------|-----------|------|------|--------|-----|--------|--------|
| 19-37 | Vesuvius Lake..... | Storms Creek..... | Ironton, Ohio..... | 10.9 | 10.7 | -- | 1937 | -- | 1,553 | 142 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1948 | 12 | -- | 1,398 | 128 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 3.0 | 54.0 | 1,463 | 134 | 54.0 | 658 |
| 19-38 | Pike Lake..... | Richardson Hollow of Morgan Fork..... | Bainbridge, Ohio..... | 3.44 | 3.42 | -- | 1937 | -- | 6/91.4 | 27 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1950 | 13 | 40.2 | 6/86.5 | 25 | 7/96.3 | 7/96.3 |

TENNESSEE RIVER BASIN (ABOVE HALES BAR DAM)

| | | | | | | | | | | | | |
|--------|-------------------------|------------------------------|---------------------------|--------|---------|------------|------|----|--------------|----------|-----|--------|
| 20-1 | South Holston..... | So. Fk. Holston River..... | Bristol, Tenn..... | 703 | 691 | Nov. 1950 | 0 | -- | 638,200 | 7/908 | -- | -- |
| 20-2 | Watauga..... | Watauga River..... | Hampton, Tenn..... | 468 | 458 | Dec. 1948 | 0 | -- | 569,800 | 7/1,218 | -- | -- |
| 20-3 | Boone..... | So. Fk. Holston River..... | Kingsport, Tenn..... | 1,840 | 662 | Dec. 1952 | 0 | -- | 196,670 | -- | -- | -- |
| 20-4 | Fort Patrick Henry..... | do..... | do..... | 1,803 | 62 | Oct. 1953 | 0 | -- | 27,100 | -- | -- | -- |
| 20-5a | Cherokee..... | Holston River..... | Jefferson City, Tenn..... | 3,428 | 8/1,477 | Dec. 1941 | -- | -- | 1,559,570 | 455 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1949 | 7.4 | -- | 1,550,932 | 453 | *55 | 0.340 |
| | do..... | do..... | do..... | -- | -- | Apr. 1954 | 5.0 | -- | 1,547,776 | -- | *55 | -- |
| 20-6a | Nolichucky..... | Nolichucky River..... | Greenville, Tenn..... | 1,183 | 1,182 | -- | 1913 | -- | 9/3,100 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- | 1925 | 12 | 9/21,750 | 18 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1938 | 12.5 | -- | 14,450 | 12 | 50 | 252 |
| | do..... | do..... | do..... | -- | -- | Apr. 1947 | 9.2 | -- | 11,980 | 10 | *50 | 226 |
| | do..... | do..... | do..... | -- | -- | May 1953 | 6.1 | -- | 9,850 | 8 | *50 | 297 |
| 20-7 | Douglas..... | French Broad River..... | Sevierville, Tenn..... | 4,541 | 2,854 | Feb. 1943 | -- | -- | 1,514,100 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1948 | 6.4 | -- | 1,498,576 | -- | -- | -- |
| 20-8a | Fort Loudoun..... | Tennessee River..... | Lenoir City, Tenn..... | 9,550 | 1,556 | Nov. 1946 | -- | -- | 400,945 | -- | *55 | 1,018 |
| | do..... | do..... | do..... | -- | -- | June 1951 | 4.6 | -- | 399,415 | -- | *55 | 256 |
| 20-9 | Thorpe..... | W. Fk. Tuckasegee River..... | Glenview, N. C..... | 36.7 | 34.4 | Sept. 1950 | -- | -- | 71,110 | -- | -- | -- |
| 20-10 | Nantahala..... | Nantahala River..... | Aquone, N. C..... | 91 | 88 | Sept. 1950 | -- | -- | 137,300 | -- | -- | -- |
| 20-11 | Fontana..... | Little Tennessee River..... | Fontana, N. C..... | 1,571 | 1,426 | Nov. 1944 | -- | -- | 1,444,300 | -- | -- | -- |
| 20-12 | Cheoah..... | do..... | Tapco, N. C..... | 1,608 | 1,607 | Mar. 1950 | 5.4 | -- | 1,441,087 | -- | *55 | 417 |
| | do..... | do..... | do..... | -- | -- | Dec. 1918 | -- | -- | 44,030 | 27 | -- | 316 |
| | do..... | do..... | do..... | -- | -- | Sept. 1930 | 11.8 | -- | 39,030 | 24 | *55 | 273 |
| | do..... | do..... | do..... | -- | -- | Aug. 1941 | 10.9 | -- | 35,030 | 22 | -- | -- |
| 20-13 | Caryville..... | Cove Creek..... | Caryville, Tenn..... | 36.0 | 35.6 | Nov. 1936 | -- | -- | 1,700 | 10/47 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1938 | 2.0 | -- | 1,640 | 46 | 62 | 842 |
| | do..... | do..... | do..... | -- | -- | Jan. 1947 | 8.2 | -- | 1,553 | 43 | -- | 309 |
| 20-14 | Norris..... | Clinch River..... | Norris Tenn..... | 2,912 | 2,823 | Mar. 1936 | -- | -- | 11/2,045,300 | 11/702 | -- | -- |
| 20-15a | Watts Bar..... | do..... | do..... | -- | -- | June 1946 | 10.3 | -- | 2,034,363 | 699 | *55 | 376 |
| | do..... | do..... | do..... | -- | -- | Oct. 1946 | -- | -- | 1,195,229 | -- | -- | 450 |
| 20-16 | Chauga..... | Tennessee River..... | Spring City, Tenn..... | 17,310 | 2,925 | June 1951 | 4.7 | -- | 1,192,743 | -- | *55 | 12/181 |
| | do..... | do..... | do..... | -- | -- | Feb. 1942 | -- | -- | 247,800 | 10/1,311 | -- | 12/217 |
| 20-17 | Nettely..... | Hiwassee River..... | Haysville, N. C..... | 189 | 178 | Aug. 1949 | 7.5 | -- | 247,381 | 1,309 | *55 | 377 |
| | do..... | do..... | do..... | -- | -- | Jan. 1912 | -- | -- | 184,400 | 862 | -- | -- |
| 20-18 | Hiwassee..... | do..... | Blairsville, Ga..... | 214 | 207 | Aug. 1949 | 7.6 | -- | 183,418 | 857 | *55 | 746 |
| | do..... | do..... | do..... | -- | -- | Feb. 1940 | -- | -- | 13/437,569 | -- | -- | -- |
| 20-19 | Apalachia..... | do..... | Murphy, N. C..... | 968 | 13/539 | Aug. 1947 | 7.5 | -- | 433,105 | -- | *55 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1943 | -- | -- | 58,576 | -- | -- | -- |
| | do..... | do..... | Farner, Tenn..... | 1,018 | 48 | Aug. 1950 | 7.5 | -- | 58,261 | -- | *55 | 1,023 |
| 20-20 | Blue Ridge..... | do..... | Blue Ridge, Ga..... | 332 | 227 | Dec. 1930 | -- | -- | 197,500 | 851 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1944 | 13.4 | -- | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1949 | 5.3 | -- | -- | -- | -- | -- |

1/ Based on total sediments in Washington Mills, Buck, Byllesby and Fields Reservoirs; total drainage area 1,320 square miles.

2/ Sept.-Nov. 1934.

3/ Sept.-Dec. 1942.

4/ For O'Shaughnessy, elevation = 847.89. For O'Shaughnessy elevation of 845, the corresponding capacity is 405 and the c/w ratio is 29.

5/ 1932 Correction for Maple Grove.

6/ Reservoir drained and partially dredged during March and April 1949. Data on amount of material removed is unreliable. Actual amounts of sediment are probably 10 to 25 percent greater than indicated.

7/ Based on capacity at base of flood control pool (top of multiple use).

8/ Includes area above Watauga Reservoir which closed Dec. 1, 1948.

9/ Based on original volume as of 1925 computed from probings obtained Feb. 1938. Capacity is at top of flash boards. Prior to 1925 Dam was 35 feet lower.

10/ Based on storage at top of flash boards.

11/ Excludes Garyville Reservoir on Cove Creek arm. Note 7/ also applies.

12/ Does not include sediment deposits before Oct. 24, 1946.

13/ Areas and volumes do not include Persimmon Creek Lake.

* Estimated or assumed.

SUMMARY OF

RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|--|------------------------------------|----------------------------------|------------------------|-------------------------------|---------|----------------|---------------------------------|-----------------------------|---|--|--|---------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| TENNESSEE RIVER BASIN (ABOVE HALES BAR DAM) (Continued) | | | | | | | | | | | | |
| 20-21a | Ocoee No. 3..... | Ocoee River..... | Ducktown, Tenn..... | 496 | 263 | Aug. 1942 | -- | 14,304 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1945 | 2.9 | 12,140 | -- | *64 | 1/2.11 | 1/2,947 |
| | do..... | do..... | do..... | -- | -- | Nov. 1946 | 1.3 | 11,349 | -- | *64 | 2.31 | 3,223 |
| | do..... | do..... | do..... | -- | -- | Aug. 1948 | 1.8 | 10,570 | -- | 64 | 1.65 | 2,294 |
| | do..... | do..... | do..... | -- | -- | Aug. 1950 | 2.0 | 9,849 | -- | *64 | 1.37 | 1,914 |
| | do..... | do..... | do..... | -- | -- | July 1953 | 3.0 | 8,696 | -- | *64 | 1.46 | 2,035 |
| 20-22a | Ocoee No. 1..... | do..... | Parksville, Tenn..... | 595 | 2/96 | Dec. 1911 | -- | 109,200 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1940 | 28.8 | 91,300 | -- | *64 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 8.9 | 86,737 | -- | 64 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1954 | 5.0 | 87,267 | -- | *64 | -- | -- |
| 20-23a | Chickamauga..... | Tennessee River..... | Chattanooga, Tenn..... | 20,790 | 3/1,085 | Nov. 1940 | -- | 746,951 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1947 | 6.7 | 734,970 | -- | *60 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1954 | 7.0 | 745,178 | -- | *60 | -- | -- |
| 20-24a | Hales Bar..... | do..... | Jasper, Tenn..... | 21,790 | 4/990 | Oct. 1935 | -- | 153,483 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1940 | 5.0 | 152,928 | -- | 61 | 4/ | -- |
| | do..... | do..... | do..... | -- | -- | July 1947 | 6.7 | 152,251 | -- | *61 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1954 | 7.1 | 152,992 | -- | *61 | -- | -- |
| OHIO RIVER BASIN (ABOVE POINT PLEASANT) AND LAKE ERIE DRAINAGE | | | | | | | | | | | | |
| 21-1 | Pleasant Hill..... | Clear Fork..... | Perrysville, Ohio..... | 199 | 195 | Oct. 1938 | -- | 87,700 | 441 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1945 | 6.25 | 87,424 | 439 | *65 | 0.227 | 321 |
| 21-2 | Senecaville..... | Seneca Fork..... | Seneca, Ohio..... | 121 | 113 | Oct. 1936 | -- | 88,500 | 731 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1945 | 8.3 | 5/87,667 | 725 | *65 | .89 | 1,260 |
| 21-3 | Charles Mill..... | Black Fork..... | Mansfield, Ohio..... | 216 | 207 | June 1938 | -- | 88,000 | 407 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 8.25 | 85,885 | 397 | *65 | 1.24 | 1,755 |
| 21-4 | Hickston Run..... | do..... | Johnstown, Pa..... | 10.75 | 10.57 | -- | -- | 3,453 | 321 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1937 | 32 | 3,315 | 308 | *60 | .408 | 553 |
| 21-5 | Quemahoning..... | Quemahoning Creek..... | do..... | 92 | 90.7 | Jan. 1912 | -- | 35,295 | 384 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1937 | 25.8 | 34,413 | 374 | -- | .377 | -- |
| 21-6 | Salt Lick..... | Salt Lick Run..... | do..... | 11.86 | 11.76 | -- | -- | 2,492 | 210 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1937 | 23 | 2,432 | 205 | *60 | .22 | 287 |
| 21-7 | Fridgenport (Upper)..... | Jacobs Creek..... | Mt. Pleasant, Pa..... | 32.5 | 32.38 | Mar. 1887 | -- | 612 | 18.8 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1937 | 50.6 | 453 | 13.9 | -- | .097 | -- |
| 21-8 | Barborton..... | Wolf Creek..... | Barborton, Ohio..... | 28.2 | 28.0 | -- | -- | 2,056 | 72.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1938 | 12 | 1,688 | 59.9 | *55 | 1.10 | 1,320 |
| 21-9 | Buckeye Lake..... | S. Fork Licking River..... | Millersport, Ohio..... | 5/49.2 | 45.1 | -- | -- | 7/19,940 | 7/405 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1939 | 107 | 15,790 | 321 | *50 | .860 | 937 |
| 21-10 | Leesville..... | McGuire Creek..... | Leesville, Ohio..... | 48.0 | 45.7 | Aug. 1936 | -- | 37,400 | 779 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 3.3 | 37,390 | 779 | *50 | .067 | 73 |
| 21-11 | Muskingum College..... | Trib. of Muskingum River..... | New Concord, Ohio..... | .32 | .31 | -- | -- | 9.4 | 29.4 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1935 | 20 | 7.0 | 22.0 | *70 | .381 | 581 |
| 21-12 | Ohio Conservation Pond No. 22..... | Trib. of Duck Creek..... | Marietta, Ohio..... | .05 | .05 | Oct. 1938 | -- | 4.43 | 88.6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 1.1 | 4.21 | 84.2 | *40 | 4.00 | 3,485 |
| 21-13 | Ohio Conservation Pond No. 51..... | Trib. of Ohio River..... | do..... | .13 | .13 | Oct. 1938 | -- | 15.16 | 117 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 1.1 | 15.02 | 116 | *40 | .977 | 851 |
| 21-14 | Ohio Conservation Pond No. 52..... | do..... | do..... | .17 | .16 | -- | -- | 17.75 | 106 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 11 | 15.40 | 90.6 | *50 | 1.45 | 1,579 |
| 21-15 | Robins Lake..... | Ford Creek..... | Hartford, Ohio..... | 4.47 | 4.45 | -- | -- | 91.6 | 20.5 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1939 | 17.4 | 79.9 | 18.0 | *68 | .151 | 224 |
| 21-16 | Corleys Lake..... | Trib. of Youghiogheny River..... | Uniontown, Pa..... | 3.00 | 2.97 | -- | -- | 150 | 50.0 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1939 | 30 | 138 | 46.0 | *60 | .135 | 176 |

| | | | | | | | | | | | |
|--------|------------------------------|--------------------------------|--------------------------|-------|---------|------------|---------|--------|------|--------|-------|
| 21-17 | Lake Rockwell..... | Cuyahoga River..... | Kent, Ohio..... | 205.5 | 8/124.1 | Aug. 1914 | 7.423 | 36.1 | -- | -- | -- |
| 21-18a | do..... | do..... | do..... | -- | -- | Aug. 1950 | 6.887 | 33.5 | 46 | 0.120 | 120 |
| 21-18b | Stony Lake..... | McGuire Creek..... | Perrysville, Ohio..... | 11.75 | 11.72 | -- 1927 | 121 | 10.3 | -- | -- | -- |
| 21-19 | do..... | do..... | do..... | -- | -- | Dec. 1938 | 80 | 6.81 | *65 | 319 | 452 |
| 21-19 | Taber Club Lake..... | Small Br. Muskingum River..... | do..... | -- | -- | May 1949 | 61 | 5.19 | *65 | 156 | 221 |
| 21-20 | do..... | do..... | do..... | -- | -- | -- | 53.6 | 97.5 | -- | -- | -- |
| 21-20 | Zanesville Nursery Lake..... | N. Branch Blount Run..... | Zanesville, Ohio..... | 2.95 | 2.93 | Dec. 1936 | 42.4 | 77.1 | *50 | 9/1.38 | 1,500 |
| 21-21 | do..... | do..... | do..... | -- | -- | July 1941 | 76.62 | 26.0 | *65 | 326 | 462 |
| 21-21 | Tionesta Creek..... | Tionesta Creek..... | Tionesta, Pa..... | 478 | 474 | Feb. 1941 | 72.23 | 24.5 | -- | -- | -- |
| 21-22 | Loyalhanna Creek..... | Loyalhanna Creek..... | Saltsburg, Pa..... | 291 | 286 | Sept. 1949 | 127.960 | 10/268 | *100 | 204 | 444 |
| 21-23 | do..... | do..... | do..... | -- | -- | June 1942 | 95.345 | 10/328 | -- | -- | -- |
| 21-23 | Mahoning Creek..... | Mahoning Creek..... | Dayton, Pa..... | 339 | 335 | Oct. 1948 | 94.652 | 325 | *100 | 376 | 819 |
| 21-24 | Crooked Creek..... | Crooked Creek..... | do..... | -- | -- | June 1941 | 74.190 | 10/219 | -- | -- | -- |
| 21-25 | Tygart River..... | Tygart River..... | do..... | 278 | 275 | Aug. 1948 | 73.797 | 218 | *100 | 160 | 348 |
| 21-26 | Youghiogheny River..... | Youghiogheny River..... | Ford City, Pa..... | 1.183 | 1.178 | Apr. 1940 | 90.060 | 10/324 | *100 | 150 | 150 |
| 21-27 | Atwood Reservoir..... | Indian Fork..... | Grafton, W. Va..... | -- | -- | Sept. 1945 | 89.968 | 324 | -- | -- | -- |
| 21-28 | do..... | do..... | do..... | -- | -- | Feb. 1938 | 289.600 | 11/245 | -- | -- | -- |
| 21-29 | Bascom Pond..... | do..... | do..... | -- | -- | Feb. 1945 | 289.216 | 245 | *100 | 101 | 101 |
| 21-30 | Christiener Pond..... | do..... | Confluence, Pa..... | 434 | 428 | Oct. 1943 | 247.000 | 12/569 | -- | -- | -- |
| 21-31 | Schoenbeck Pond..... | do..... | do..... | 70 | 66.2 | Oct. 1949 | 246.141 | 567 | *100 | 342 | 745 |
| 21-32 | do..... | do..... | Sherrdsville, Ohio..... | -- | -- | Apr. 1940 | 49.700 | 710 | -- | -- | -- |
| 21-33 | do..... | do..... | do..... | -- | -- | Dec. 1940 | 49.570 | 708 | *65 | 13/29 | 410 |
| 21-34 | do..... | do..... | do..... | -- | -- | -- | 245 | 12.3 | -- | -- | -- |
| 21-35 | Clouse Lake..... | do..... | Richfield, Ohio..... | -- | -- | Apr. 1951 | 189 | 9.4 | *60 | 15 | 196 |
| 21-36 | East Branch..... | Mahoning River..... | do..... | -- | -- | Apr. 1951 | 3.87 | 12.1 | -- | -- | -- |
| 21-37 | Westville Lake..... | Sandy Run..... | Hudson, Ohio..... | -- | -- | Apr. 1951 | 3.24 | 10.1 | *60 | 281 | 367 |
| 21-38 | Berlin..... | Town Fork Yellow River..... | do..... | -- | -- | Apr. 1951 | 3.40 | 37.8 | -- | -- | -- |
| 21-39 | do..... | do..... | Parma, Ohio..... | -- | -- | Apr. 1951 | 2.79 | 31.0 | *60 | 611 | 798 |
| 21-40 | do..... | do..... | do..... | -- | -- | Apr. 1951 | 1.48 | 49.3 | -- | -- | -- |
| 21-41 | do..... | do..... | Richfield, Ohio..... | -- | -- | Apr. 1951 | 1.29 | 43.0 | *60 | 567 | 741 |
| 21-42 | do..... | do..... | do..... | -- | -- | Apr. 1951 | 2.84 | 17.8 | -- | -- | -- |
| 21-43 | do..... | do..... | Peninsula, Ohio..... | -- | -- | Apr. 1951 | 2.81 | 17.5 | *60 | 100 | 131 |
| 21-44 | do..... | do..... | Zaleski, Ohio..... | -- | -- | Apr. 1951 | 1.506 | 151 | -- | -- | -- |
| 21-45 | do..... | do..... | do..... | -- | -- | July 1949 | 1.462 | 147 | -- | -- | -- |
| 21-46 | do..... | do..... | do..... | -- | -- | July 1949 | 189 | 25 | -- | -- | -- |
| 21-47 | do..... | do..... | Richmond, Ohio..... | -- | -- | Dec. 1935 | 156 | 21 | -- | -- | -- |
| 21-48 | do..... | do..... | do..... | -- | -- | Aug. 1950 | 244 | 28 | -- | -- | -- |
| 21-49 | do..... | do..... | Sumerset, Ohio..... | -- | -- | Feb. 1948 | 224 | 26 | -- | -- | -- |
| 21-50 | do..... | do..... | do..... | -- | -- | Jul. 1949 | 210 | 24 | -- | -- | -- |
| 21-51 | do..... | do..... | do..... | -- | -- | Aug. 1950 | 204 | 23 | -- | -- | -- |
| 21-52 | do..... | do..... | do..... | -- | -- | Sept. 1951 | 198 | 26 | -- | -- | -- |
| 21-53 | do..... | do..... | do..... | -- | -- | June 1952 | 4.659 | 259 | -- | -- | -- |
| 21-54 | do..... | do..... | Burton, Ohio..... | -- | -- | June 1939 | 4.535 | 259 | *40 | 759 | 661 |
| 21-55 | do..... | do..... | do..... | -- | -- | June 1949 | 944 | 119 | -- | -- | -- |
| 21-56 | do..... | do..... | Alliance, Ohio..... | -- | -- | -- | 1913 | 112 | -- | -- | -- |
| 21-57 | do..... | do..... | do..... | -- | -- | Aug. 1950 | 933 | 112 | -- | -- | -- |
| 21-58 | do..... | do..... | Berlin Center, Ohio..... | -- | -- | July 1943 | 246 | 37 | -- | -- | -- |
| 21-59 | do..... | do..... | do..... | -- | -- | Nov. 1951 | -- | 366 | *100 | 1.30 | 2,630 |

1/All values for this reservoir exclude 553 acre-feet (3.86 percent of reservoir capacity) flushed into reservoir in March 1944 by failure of small retention dam.
2/Blue Ridge Reservoir closed Dec. 6, 1930. Ocoee No. 3 closed Aug. 15, 1942.
3/Sediment contributing area reduced by closing Watts Bar Dam Jan. 1, 1942, and Apalachia Dam Feb. 1943.
4/Sediment contributing area reduced by closure of Norris Dam, March, 1936 and Chickamauga Dam Jan. 1940.
5/Some dredging 1934.
6/Drainage area has been 115 sq. mi. (net) part of the time in the past, when fed partly by feeder from S. Fork Kirkersville River.
7/At present spillway elevation [lowered 0.8 foot in 1908]. From 1936 to 1908 c/w ratio was 449. From 1932 to 1936, spillway elevation was lower. Originally, the lake was a natural lake. Lake originally used as a feeder for Ohio canal system.

8/East Branch Reservoir and many natural lakes act as efficient sediment traps.
9/Dam failed earlier in 1938 but little sediment lost.
10/For flood control pool. The sediment ranges cover the reach of the conservation pool. No deposits were observed above a level 10 feet above the conservation pool.
11/Range lines have not been established in the upstream 40 percent of the reservoir. During the survey no deposits were observed above the limit of the low-water regulation pool (elev. 1094).
12/Full pool considered to be 2 feet above spillway crest(c/w ratio 585). Ranges cover only a portion of low flow regulation pool. Deposits in remaining portion were small and hardly measurable.
13/Conservation pool was raised 14 ft. in 1947. Reservoir was empty Nov-Dec. 1946. Some sediment was probably washed out during Oct. 1946 drawdown as channel below dam was filled with sediment.
*Estimated or assumed.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|------------------------|--------------------------------|---------------------|-------------------------------|-------|----------------|---------------------------------|-----------------------------|---|--|--|-------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| GREAT LAKES DRAINAGE (IN MICHIGAN) AND MAUNEE RIVER BASIN | | | | | | | | | | | | |
| 22-1 | Grand 1/ | St. Marys and Wabash River... | Celina, Ohio..... | 118 | 93 | -- | 1844 | 130,175 | 2/1, 103 | -- | -- | -- |
| 22-2 | Stronach..... | Pine R. of the Manistee River. | Wellston, Mich..... | 291 | 233 | -- | 1912 | 106,605 | 903 | *55 | 2.64 | 3,162 |
| 22-3 | Goller Pond..... | do..... | do..... | -- | -- | Jan. 1953 | 41 | 640 | 2.2 | -- | -- | -- |
| 22-4 | Auglaize R. Power..... | do..... | Defiance, Ohio..... | .026 | .024 | Mar. 1945 | -- | 27 | 367 | 110.4 | 3/154 | 3/154 |
| 22-5 | Eagle Creek 5/ | do..... | do..... | -- | -- | Aug. 1951 | 6.4 | 9.4 | 362 | *45 | .92 | 902 |
| 22-6 | Beetree Creek 5/ | do..... | do..... | 2,329 | 2,326 | -- | 1912 | 4/14,400 | 6.18 | -- | -- | -- |
| 22-7 | Batt Pond..... | do..... | do..... | .013 | -- | -- | 1951 | 11,600 | 4.98 | -- | .31 | -- |
| 22-8 | Harrison Lake..... | do..... | do..... | 5.23 | 5.20 | -- | 1912 | 129 | 25 | -- | -- | -- |
| 22-9 | Almondinger Pond..... | do..... | do..... | 1.94 | 1.91 | July 1951 | 39 | 74 | 14 | 59.0 | .27 | 347 |
| 22-10 | Bucyrus No. 2..... | do..... | do..... | -- | -- | Aug. 1951 | 39 | 104 | 54 | 52.5 | .59 | 675 |
| 22-11 | Contris Pond..... | do..... | do..... | -- | -- | Apr. 1947 | -- | 2.6 | 200 | -- | -- | -- |
| 22-12 | Sixmile Creek 5/ | do..... | do..... | .038 | .035 | July 1951 | 4.3 | 2.5 | 192 | 73.4 | 2.75 | 4,396 |
| 22-13 | Burt Lake..... | do..... | do..... | -- | -- | July 1951 | 8.3 | 991 | 27 | -- | -- | -- |
| 22-14 | Kohart Pond..... | do..... | do..... | 37.2 | 37.0 | -- | 1941 | 929.1 | 25 | 53.2 | .20 | 232 |
| 22-15 | Van Buren Lake..... | do..... | do..... | -- | -- | June 1949 | 2.1 | 902.4 | 24 | *53 | .34 | 392 |
| | do..... | do..... | do..... | -- | -- | Jan. 1945 | -- | 5.08 | 134 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1951 | 6.7 | 4.71 | 124 | 53.7 | 1.71 | 2,001 |
| | do..... | do..... | do..... | 2.84 | 2.79 | -- | 1919 | 242 | 85 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1949 | 30 | 218 | 77 | 45.4 | .28 | 277 |
| | do..... | do..... | do..... | .132 | .128 | Aug. 1947 | -- | 9.4 | 71 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1951 | 4.0 | 8.0 | 61 | 63.5 | 2.73 | 3,776 |
| | do..... | do..... | do..... | 21.6 | 21.4 | -- | 1912 | 995 | 46 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1951 | 39 | 696 | 32 | 43.8 | .36 | 343 |
| | do..... | do..... | do..... | .76 | .74 | Sept. 1948 | -- | 59 | 78 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1951 | 2.8 | 58 | 75 | 37.2 | 1.14 | 924 |
| | do..... | do..... | do..... | .021 | .019 | Sept. 1943 | -- | 2.4 | 114 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1951 | 7.8 | 248 | 110 | 26.1 | .53 | 301 |
| | do..... | do..... | do..... | 22.80 | 22.72 | -- | 1939 | 205 | 11 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1948 | 9.5 | 186 | 8 | 53.6 | .20 | 233 |
| | do..... | do..... | do..... | -- | -- | Aug. 1951 | 2.8 | 57.9 | 31 | 31 | .31 | 391 |

GREAT LAKES DRAINAGE (IN MICHIGAN AND WISCONSIN)

MISSISSIPPI RIVER BASIN (LOUISIANA TO CHESTER) ILLINOIS, KASKASKIA, AND MERAMEC RIVER BASINS

| | | | | | | | | | | | | |
|-------|-----------------------|---------------------------|-----------------------|------|------|-----------|------|--------|------|------|------|-------|
| 24-1 | Artic Pond..... | Trib. of Honey Creek..... | Carlinville, Ill..... | 0.53 | 0.51 | -- | 1922 | 176 | 331 | -- | -- | -- |
| 24-2a | Lake Bloomington..... | do..... | do..... | 61 | 60.3 | July 1949 | 27 | 160 | 301 | *50 | 1.17 | 1,270 |
| 24-3 | Lake Carlinville..... | do..... | Bloomington, Ill..... | -- | -- | Dec. 1929 | -- | 6,678 | 109 | -- | -- | -- |
| 24-4 | Lake Decatur..... | do..... | do..... | 26.1 | 25.8 | Aug. 1948 | 18.7 | 6,082 | 100 | 42.2 | .59 | 486 |
| 24-5 | Shaefer Pond..... | do..... | do..... | 906 | 902 | Aug. 1952 | 4.0 | 5,913 | 97 | 42.2 | .701 | 644 |
| 24-6 | Lake Springfield..... | do..... | do..... | -- | -- | Jan. 1939 | -- | 1,725 | 66.2 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1949 | 10.4 | 1,474 | 56.6 | *50 | .934 | 1,020 |
| | do..... | do..... | do..... | -- | -- | Apr. 1922 | -- | 19,738 | 21.8 | -- | -- | -- |
| | do..... | do..... | do..... | .087 | .083 | July 1936 | 14.2 | 16,930 | 16.1 | 51.7 | .262 | 248 |
| | do..... | do..... | do..... | -- | -- | June 1946 | 10.0 | 14,567 | 232 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1937 | -- | 20.2 | 202 | *50 | 2.65 | 2,890 |
| | do..... | do..... | do..... | 265 | 258 | July 1949 | 11.8 | 17.6 | 230 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1934 | -- | 61,039 | 220 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1948 | 14.6 | 58,380 | 43 | -- | .705 | 660 |

| | | | | | | | | | | | |
|-------|--|-----------------------------|------------------------|---------|------|------------|------|---------|---------|------|-------|
| 24-7 | Spring Lake..... | Spring Creek..... | Macomb, Ill..... | 20.2 | 20.1 | Apr. 1927 | -- | 607 | 2/ 30.0 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 20.4 | 320 | 15.8 | 59.7 | 911 |
| 24-8 | Lake Bracken..... | Brush Creek..... | Galesburg, Ill..... | 9.14 | 8.85 | Dec. 1923 | -- | 2,881 | 315 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1936 | 12.7 | 2,660 | 291 | -- | 1.97 |
| | do..... | do..... | do..... | -- | -- | June 1949 | 12.9 | 2,452 | 268 | 52 | 1.82 |
| 24-9 | Pittsfield..... | Trib. of Panther Creek..... | Pittsfield, Ill..... | 1.84 | 1.77 | June 1925 | -- | 8/367 | 8/199 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1946 | 21.5 | 232 | 126 | *40 | 3.55 |
| 24-10 | Navigation Pool No. 25 (Winfield Dam)..... | Mississippi River..... | Winfield, Mo..... | 142,000 | 9/ | July 1939 | -- | 170,000 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1947 | 8.3 | 151,485 | -- | 70 | -- |
| 24-11 | Mt. Sterling..... | Trib. of Shelby Creek..... | Mt. Sterling, Ill..... | 1.80 | 1.75 | -- 1935 | -- | 306 | 170 | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1951 | 35 | 248 | 138 | 60 | 1.228 |
| 24-12 | Lake Jacksonville..... | Sandy Creek..... | Jacksonville, Ill..... | 10.8 | 10.1 | -- 1939 | -- | 7,058 | 654 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1952 | 12.0 | 6,874 | 636 | 32.5 | 15.1 |
| 24-13 | Mauvaise Terre Lake..... | Mauvaise Terre Creek..... | do..... | 32.6 | 32.2 | -- 1921 | -- | 1,820 | 56 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1952 | 31 | 1,215 | 37 | 48.2 | .61 |
| 24-14 | Morgan Lake..... | do..... | do..... | 2.75 | 2.72 | -- 1900 | -- | 126 | 46 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1952 | 52 | 73 | 27 | 41.2 | .38 |
| 24-15 | Langdon Pond..... | do..... | Franklin, Ill..... | .358 | .348 | -- 1907 | -- | 56.8 | 159 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 45 | 44.8 | 125 | 31.8 | .78 |
| 24-16 | Franklin Outing Club Lake..... | do..... | do..... | .450 | .414 | -- 1905 | -- | 328 | 729 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 47 | 301 | 668 | 52.4 | 1.43 |
| 24-17 | Anderson Lake..... | do..... | Concord, Ill..... | .631 | .600 | -- 1909 | -- | 267 | 423 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 43 | 234 | 390 | 36.2 | 1.28 |
| 24-18 | Waverly City..... | do..... | Waverly, Ill..... | 9.24 | 9.16 | Oct. 1938 | -- | 308.3 | 33 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 13.8 | 238.6 | 26 | 42.4 | .551 |
| 24-19 | Whitehall City..... | do..... | Whitehall, Ill..... | .97 | .92 | -- 1897 | -- | 459 | 474 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 55 | 408 | 420 | 43.1 | 1.02 |
| 24-20 | Rodhouse Park District Lake..... | do..... | Rodhouse, Ill..... | .451 | .439 | -- 1917 | -- | 61.6 | 137 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 35 | 53.9 | 120 | 42.4 | .50 |
| 24-21 | Woodbine Country Club Lake..... | do..... | Greenfield, Ill..... | .329 | .320 | -- 1926 | -- | 58.5 | 178 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 26 | 43.4 | 132 | 54.4 | 1.81 |
| 24-22 | Dale Cole Pond..... | do..... | do..... | .231 | .221 | -- 1924 | -- | 67.2 | 291 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 28 | 56.7 | 245 | 53.7 | 1.72 |
| 24-23 | Seely Pond..... | do..... | Hillview, Ill..... | .093 | .091 | -- 1902 | -- | 3.7 | 40 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 50 | 2.2 | 24 | 35.6 | .30 |
| 24-24 | Vineyard Pond..... | do..... | Whitehall, Ill..... | .054 | .052 | Jan. 1937 | -- | 1.58 | 29 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 15.6 | 1.32 | 24 | 36.2 | .33 |
| 24-25 | Knapp..... | do..... | Springfield, Ill..... | 3.49 | 3.43 | -- 1907 | -- | 181.8 | 52 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1952 | 45 | 115.3 | 33 | 38.7 | .431 |
| 24-26 | Aschauer Pond..... | do..... | Riverton, Ill..... | .526 | .518 | -- 1939 | -- | 18.3 | 35 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1952 | 13 | 9.4 | 18 | 56.2 | 1.31 |
| 24-27 | Schmidt Pond..... | do..... | Chatham, Ill..... | 1.31 | 1.30 | -- 1943 | -- | 6.0 | 4.58 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1952 | 9 | 3.4 | 2.60 | 41.2 | .22 |
| 25-1 | Pool No. 19 (Lake Cooper, Keokuk Dam)..... | Mississippi River..... | Keokuk, Iowa..... | 119,000 | 9/ | -- 1913 | -- | 479,550 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1928 | 15 | 370,300 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1938 | 10 | 337,000 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1946 | 8 | 312,216 | -- | -- | -- |
| 25-2 | Upper Pine..... | Pine Creek..... | Eldora, Iowa..... | 13.9 | 13.8 | May 1934 | -- | 660 | 47.5 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 13.3 | 452 | 32.5 | *60 | 1.14 |
| 25-3 | Lake Calhoun..... | Fitch Creek..... | Galva, Ill..... | 13.1 | 13.0 | Sept. 1924 | -- | 425 | 1042.4 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1936 | 11.9 | 273 | 20.8 | -- | .977 |
| | do..... | do..... | do..... | -- | -- | July 1947 | 11.0 | 112 | 8.6 | 56 | 1.12 |
| | do..... | do..... | do..... | -- | -- | -- | -- | -- | -- | -- | 1,370 |

UPPER MISSISSIPPI RIVER BASIN (FAIRMONT TO LOUISIANA)

Iowa, Shunk and Des Moines River Basins

6/ Turbidity records indicate that an average of 75 tons annually per square mile of drainage area have passed over spillway. Total annual sediment load per square mile, 1922-46 was 341 tons.

7/ At top of 13 foot flashboards added in 1946.

8/ At present spillway elevation, Spillway raised 1.21 feet in 1944.

9/ Indeterminate.

10/ Spillway raised 2.89 feet in 1946. Original c/w ratio was 21.8. All sedimentation and storage loss data based on higher spillway elevation.

* Estimated or assumed.

1/ Drains into Wabash River and Lake Erie. Originally built as a canal feeder lake. Also known as Lake St. Marys.

2/ At present spillway elevation (lowered 5.37 feet in 1856). In 1844 c/w ratio was 1,870.

3/ Above crest deposits were measured only within original reservoir area. Additional above crest deposits undoubtedly extends far upstream.

4/ Capacity and sediment figures that of several tributary arms including Beetree, Eagle, and Sixmile Creek.

5/ Tributary arm of Angulaize River Power Reservoir.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|---------------------------------------|-------------------------|---------------------------|-------------------------------|--------|----------------|---------------------------------|-----------------------------|---|--|--|-------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| UPPER MISSISSIPPI RIVER BASIN (FAIRMONT TO LOUISIANA) (Continued) | | | | | | | | | | | | |
| Iowa, Shunk and Des Moines River Basins | | | | | | | | | | | | |
| 25-4 | Carthage..... | Long Creek..... | Carthage, Ill..... | 2.94 | -- | 2.88 Mar. 1926 | -- | 406.3 | 138 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1949 | 23.4 | 308.2 | 105 | *50 | 1.45 | 1,580 |
| 25-5 | McCraney Cr. New Desilting Basin..... | McCraney Creek..... | Kinderhook, Ill..... | 52.0 | 50.2 | Dec. 1936 | -- | *2,400 | *46.2 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1939 | 3 | *1,770 | 34.0 | *85 | 4.18 | 7,740 |
| 25-6 | Pine Lake..... | Pine Creek..... | Eldora, Iowa..... | 15.34 | 15.24 | -- 1941 | 2 | *1,664 | 32.0 | *85 | 1.06 | 1,960 |
| | do..... | do..... | do..... | -- | -- | -- 1932 | 8 | 552 | 36.0 | *60 | -- | -- |
| 25-7 | Hadley Cr. Old Desilting Basin..... | Hadley Creek..... | New Canton, Ill..... | 77.0 | 1/72.7 | -- 1921 | -- | 3,000 | 39 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1936 | 15 | 1,845 | 24 | *85 | 1.06 | 1,960 |
| 25-8 | Hadley Cr. New Desilting Basin..... | do..... | do..... | 77.0 | 1/72.7 | Dec. 1936 | -- | 3,080 | 40.0 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1939 | 3 | 2,556 | 33.2 | *85 | 2.41 | 4,460 |
| 25-9 | Kiser Cr. Desilting Basin..... | Kiser Creek..... | do..... | 66.0 | 1/59.6 | Dec. 1936 | -- | *2,800 | 42.4 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1939 | 3 | *2,290 | 34.7 | *85 | 2.85 | 5,280 |
| 25-10 | Beeds Lake..... | Unnamed Stream..... | Hampton, Iowa..... | 31.8 | 31.6 | -- 1935 | -- | 1,154 | 36.3 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1946 | 11 | 1,070 | 33.6 | *65 | .24 | 340 |
| 25-11 | C M St. P & P RR Res 3/..... | Trib. of Big Creek..... | Madrid, Iowa..... | 2.54 | 2.52 | -- 1903 | -- | 43 | 16.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1918 | 15 | 25 | 9.8 | *70 | .476 | 726 |
| 25-12a | Fairfield No. 3..... | Crow Creek..... | Fairfield, Iowa..... | 2.98 | 2.92 | -- 1925 | -- | 207 | 101 | -- | -- | -- |
| | do..... | do..... | do..... | 2.98 | -- | -- 1934 | 7 | 166 | 81 | *51.6 | 2.96 | 3,327 |
| | do..... | do..... | do..... | -- | -- | July 1953 | 19 | 135 | 66 | 51.6 | .795 | 893 |
| 25-13 | Springbrook..... | Spring Brook..... | Guthrie Center, Iowa..... | 2.1 | 2.1 | -- 1936 | -- | 185 | 88.1 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1946 | 10 | 172 | 81.9 | *50 | .638 | 695 |
| 25-14 | Pool No. 16..... | Mississippi River..... | Muscataine, Iowa..... | 99,400 | 2/ | Mar. 1938 | -- | 13,370 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1949 | 11.7 | 106,347 | -- | -- | -- | -- |
| 25-15 | Pool No. 20..... | do..... | Canton, Mo..... | 134,300 | 2/ | Oct. 1937 | -- | 89,850 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1950 | 13.1 | 87,740 | -- | -- | -- | -- |
| 25-16 | Bloomfield..... | do..... | Bloomfield, Iowa..... | 2.25 | 2.13 | Sept. 1937 | -- | 896 | 398 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1951 | 14.0 | 831 | 369 | *60 | 2.16 | 2,823 |
| 25-17 | Pool No. 17..... | do..... | New Boston, Ill..... | 99,600 | 2/ | Aug. 1938 | -- | 70,800 | .7 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1954 | 15.6 | 69,350 | .7 | -- | .001 | -- |
| 25-18 | Pool No. 21..... | do..... | Quincy, Ill..... | 135,000 | 2/ | July 1938 | -- | 78,040 | .6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1954 | 15.7 | 69,570 | .5 | -- | .004 | -- |

UPPER MISSISSIPPI RIVER BASIN (PRAIRIE DU CHIEN TO ROCK ISLAND) AND LAKE MICHIGAN DRAINAGE

Rock and Waosipinicon River Basins

| | | | | | | | | | | | | |
|-------|---------------------------------------|------------------------|---------------------------|--------|-----|-----------|-----|--------|------|------|------|-----|
| 26-1a | Pool No. 15..... | Mississippi River..... | Rock Island, Ill-Ia..... | 88,500 | 2/ | Mar. 1934 | -- | 39,432 | 0.4 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1938 | 4.5 | 38,546 | .4 | -- | 197 | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1944 | 6.2 | 38,229 | .4 | -- | 51 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1946 | 2.1 | 39,224 | .4 | -- | 474 | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1948 | 1.9 | 37,643 | .4 | -- | 832 | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1950 | 2.0 | 37,881 | .4 | -- | 119 | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1952 | 2.0 | 37,086 | .4 | -- | 398 | -- |
| 26-2 | Backbone Lake (Forestville Lake)..... | Maquoketa River..... | Strawberry Pt., Iowa..... | 116 | 116 | July 1934 | -- | 608 | 5.24 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1942 | 7.6 | 539 | 4.65 | -- | .078 | 127 |
| | do..... | do..... | do..... | -- | -- | Feb. 1949 | 7.0 | 473 | 4.08 | 75.1 | .082 | 134 |

UPPER MISSISSIPPI RIVER BASIN (ST. PAUL TO PRAIRIE DU CHIEN)
 Wisconsin, Root, Chippewa, and St. Croix River Basins

| | | | | | | | | | | | |
|------|---------------------------|----------------|-----------------------|--------|-------|-----------|---------|------|------|-------|-------|
| 27-1 | Elk Creek Lake..... | Elk Creek..... | Eau Claire, Wisc..... | 60 | -- | 1926 | 683 | 11.4 | -- | -- | -- |
| 27-2 | Ettrick Mill Pond..... | do..... | do..... | -- | -- | Oct. 1941 | 457 | 7.6 | *70 | 0.252 | 384 |
| 27-3 | Marinka (Davis Lake)..... | do..... | do..... | 50.75 | 50.70 | -- 1871 | 127 | 2.50 | -- | -- | -- |
| 27-4 | Prairie du Sac..... | do..... | do..... | -- | -- | June 1939 | 46 | .91 | *80 | .023 | 40 |
| 27-5 | Pool No. 5A..... | do..... | do..... | 138.6 | 138.2 | -- 1867 | 1,677 | 12.1 | -- | -- | -- |
| | do..... | do..... | do..... | 8,900 | 4/600 | June 1939 | 683 | 4.93 | 72.5 | .100 | 158 |
| | do..... | do..... | do..... | 59,100 | -- | -- 1914 | 100,000 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- 1933 | 91,851 | -- | *90 | .717 | 1,400 |
| | do..... | do..... | do..... | -- | -- | July 1936 | 30,000 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1945 | 28,890 | -- | *90 | -- | -- |

UPPER MISSISSIPPI RIVER BASIN (ABOVE ST. PAUL)

LAKE SUPERIOR AND LAKE OF THE WOODS AREA (IN MINNESOTA)

RED RIVER OF THE NORTH BASIN

| | | | | | | | | | | | |
|------|-------------------|-----------------|--------------------|-----|-------|-----------|-------|------|-------|-------|------|
| 30-1 | Lake Bronson..... | Two Rivers..... | Bronson, Minn..... | 439 | 438.5 | -- 1940 | 3,792 | 8.64 | -- | -- | -- |
| 30-2 | Frazee..... | do..... | do..... | -- | -- | Oct. 1950 | 3,626 | 8.26 | 30.94 | 0.038 | 25.6 |
| | do..... | do..... | do..... | 210 | 24 | -- 1926 | 155 | .738 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1952 | 137.1 | .653 | 20.0 | .029 | 12.6 |

MISSOURI RIVER BASIN (NEBRASKA CITY TO HERMANN)

| | | | | | | | | | | | |
|-------|---|------------------|----------------|--------|--------|------------|-----------|-------|-------|-------|--------|
| 31-1 | Lake of the Ozarks (Bagnell Dam)..... | Osage River..... | Eldon, Mo..... | 14,000 | 13,900 | Feb. 1931 | 2,087,223 | 149 | -- | -- | -- |
| 31-2 | Carl Chinquist..... | do..... | do..... | -- | -- | Oct. 1948 | 1,972,531 | 141 | 59.2 | 0.464 | 598 |
| 31-3 | L. H. Fueling..... | do..... | do..... | .166 | .163 | June 1938 | 9.46 | 57.0 | -- | -- | -- |
| 31-4 | McDaniel Lake..... | do..... | do..... | 1.05 | 1.04 | July 1939 | 2.59 | 15.6 | 49.9 | 3.87 | 4,200 |
| 31-5 | Doriphan Co. Old Desilting Basin..... | do..... | do..... | 41.9 | 41.5 | -- 1929 | 31.80 | 30.3 | -- | -- | -- |
| 31-6 | Leavenworth Co. State Lake..... | do..... | do..... | -- | -- | May 1949 | 1.93 | 1.84 | 62.5 | 2.93 | 3,990 |
| 31-7 | Lyon Co. State Lake (Reading Lake)..... | do..... | do..... | -- | -- | June 1940 | 3,452 | 82 | -- | -- | -- |
| 31-8 | Martin Farm Lake..... | do..... | do..... | 1.62 | 1.58 | -- 1920 | 3,207 | 77 | *60 | .538 | 703 |
| 31-9 | Mission Lake..... | do..... | do..... | -- | -- | June 1937 | 159.2 | 98.3 | -- | -- | -- |
| 31-10 | Moran..... | do..... | do..... | 3.83 | 3.56 | Sept. 1931 | 23.6 | 14.6 | 84.4 | 8.58 | 15,770 |
| | do..... | do..... | do..... | -- | -- | Nov. 1947 | 3,916 | 1,023 | -- | -- | -- |
| | do..... | do..... | do..... | 5/2.19 | 1.79 | -- 1935 | 3,771 | 985 | 61.45 | 2.53 | 3,386 |
| | do..... | do..... | do..... | -- | -- | Aug. 1939 | 1,889 | 863 | -- | -- | -- |
| | do..... | do..... | do..... | .18 | -- | Nov. 1930 | 1,870 | 854 | *60 | 2.73 | 3,568 |
| | do..... | do..... | do..... | -- | -- | Oct. 1937 | 33 | 183 | -- | -- | -- |
| | do..... | do..... | do..... | 8.15 | 7.76 | -- 1924 | 30 | 167 | *60 | 2.82 | 3,685 |
| | do..... | do..... | do..... | -- | -- | May 1937 | 1,852 | 227 | -- | -- | -- |
| | do..... | do..... | do..... | 5.35 | 5.28 | Apr. 1913 | 1,563 | 192 | 62.2 | 2.86 | 3,874 |
| | do..... | do..... | do..... | -- | -- | Sept. 1939 | 365 | 68.2 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | -- | 298 | 55.7 | 49.15 | .477 | 511 |

1/Excludes Mississippi River bottom land.
 2/Indeterminate.
 3/Reservoir no longer visible on 1939 aerial photos.
 4/Flow from 8,300 sq. mi. of drainage area passes through power dams which act as traps.
 5/Excluding area of lake and 0.31 sq. mi. above stock pond.
 *Estimated or assumed.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION FOR PERIOD | |
|---|---|----------------------------|------------------------|-------------------------------|---------|----------------|---------------------------------|-----------------------------|---|--|---|--------|
| | | | | DRAINAGE AREA IN SQUARE MILES | | | | | | | ACRE-FT | TONS |
| | | | | TOTAL | NET | | | | | | | |
| MISSOURI RIVER BASIN (NEBRASKA CITY TO HERMAN) (Continued) | | | | | | | | | | | | |
| 31-11 | Lake Olathe..... | Cedar Creek..... | Olathe, Kans..... | 6.20 | 6.11 | July 1932 | -- | 721 | 116 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1937 | 4.9 | 666 | 107 | 60.4 | 1.84 | 2,421 |
| 31-12 | Richmond..... | do..... | do..... | -- | -- | July 1949 | 12.1 | 488 | 78.7 | 57.6 | 2.41 | 3,023 |
| | do..... | Unnamed Trib..... | Richmond, Kans..... | 2.17 | 2.07 | -- 1909 | -- | 405 | 187 | -- | -- | -- |
| 31-13 | Lampe Farm Pond..... | do..... | do..... | -- | -- | Oct. 1937 | 28 | 289 | 133 | *60 | 2.00 | 2,614 |
| | do..... | Trib. of Muddy Creek..... | Howe, Nebr..... | .065 | .064 | Aug. 1942 | -- | 3.00 | 46.2 | -- | -- | -- |
| 31-14 | E. W. Howel..... | do..... | do..... | -- | -- | Dec. 1948 | 6.3 | 2.04 | 31.4 | 57.4 | 2.41 | 3,010 |
| | do..... | Trib. of Tarkio Creek..... | Tarkio, Nebr..... | .509 | .505 | July 1934 | -- | 33.7 | 66.2 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1949 | 1/ 6.9 | .03 | 103 | 72.5 | 9.66 | 15,250 |
| 31-15 | Allerton..... | South Charlton River..... | Allerton, Iowa..... | 4.98 | 4.82 | -- 1913 | -- | 511 | 103 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 25.5 | 401 | 81 | *60 | .894 | 1,170 |
| 31-16 | Centerville No. 2..... | do..... | do..... | 2.70 | 2.62 | -- 1926 | -- | 1,111 | 411 | -- | -- | -- |
| | do..... | Manson's Branch..... | Centerville, Iowa..... | -- | -- | -- 1937 | 11 | 1,050 | 389 | *60 | 2.12 | 2,760 |
| 31-17 | Lake of three Fires..... | do..... | do..... | 6.15 | 5.97 | July 1936 | -- | 1,231 | 200 | -- | -- | -- |
| | do..... | E. Fk. 102 River..... | Bedford, Iowa..... | -- | -- | Feb. 1950 | 13.6 | 860 | 140 | -- | 4.58 | -- |
| SMOKY HILL AND LOWER REPUBLICAN RIVER BASINS | | | | | | | | | | | | |
| 32-1 | Ottawa County State Lake..... | Sand Creek..... | Bennington, Kans..... | 20.47 | 20.26 | -- 1929 | -- | 1,001 | 48.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1937 | 8.0 | 930 | 45.4 | -- | 0.438 | -- |
| 32-2 | Sheridan County State Lake..... | Saline River..... | Quinter, Kans..... | 493 | 463 | -- -- | -- | -- | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1948 | 10.8 | 436 | 1 | 66.5 | .681 | 98.6 |
| 32-3 | Kanopolis..... | Smoky Hill River..... | Kanopolis, Kans..... | 7,860 | 2/2,308 | July 1946 | -- | 450,000 | 57 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1950 | 4.3 | 446,000 | 57 | *50 | .127 | 138 |
| | do..... | do..... | do..... | -- | -- | Nov. 1951 | 1.0 | 442,000 | 56 | *58 | 1.23 | 1,550 |
| UPPER REPUBLICAN, NORTH PLATTE, RIVER BASINS (FT. LARAMIE TO NORTH PLATE) AND SOUTH PLATTE RIVER BASIN (SUBLETTE TO NORTH PLATTE) | | | | | | | | | | | | |
| 33-1 | Wellfleet..... | Medicine Creek..... | Wellfleet, Nebr..... | 3/15.00 | 14.89 | Oct. 1931 | -- | 519 | 34.6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1937 | 5.6 | 464 | 30.9 | *65 | 0.66 | 934 |
| 33-2 | Lockhart Farm Pond..... | do..... | do..... | 4/ 2.564 | 2.558 | Aug. 1939 | -- | 15.64 | 6.1 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 12.9 | 8.83 | 3.4 | 57.3 | .206 | 257 |
| 33-3 | Harry Strunk Lake (Medicine Creek Dam)..... | do..... | do..... | 656 | 653 | Aug. 1949 | -- | 92,340 | 140.8 | -- | -- | -- |
| | do..... | do..... | Cambridge, Nebr..... | -- | -- | Oct. 1951 | 2.2 | 90,920 | 138.6 | 71.4 | .97 | 1,508 |
| NORTH PLATTE RIVER BASIN (ABOVE FT. LARAMIE) SOUTH PLATTE RIVER BASIN (ABOVE SUBLETTE) | | | | | | | | | | | | |
| 34-1 | Castlewood..... | Cherry Creek..... | Denver, Colo..... | 167.2 | 166.9 | -- 1890 | -- | 3,834 | 22.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1933 5/ | 43 | 3,126 | 18.7 | 77.5 | 0.099 | 167 |
| 34-2 | Kenwood..... | do..... | do..... | 387 | 386 | Mar. 1936 | -- | 9,602 | 25.3 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1938 | 2.25 | 9,710 | 25.1 | 75.6 | .106 | 175 |
| | do..... | do..... | do..... | -- | -- | June 1939 | 1.00 | 9,424 | 24.4 | *75.6 | .741 | 1,220 |
| 34-3a | Guernsey..... | North Platte River..... | Guernsey, Wyo..... | 16,200 | 6/5,400 | Feb. 1927 | -- | 73,810 | 13.42 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1931 | 3.83 | 67,840 | 12.31 | -- | .28 | -- |

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|---|---------------------------------|----------------------|-------------------------------|-------|----------------|---------------------------------|-----------------------------|---|--|--|----------|
| | | | | DRAINAGE AREA IN SQUARE MILES | | | | | | | ACRE-FT | TONS |
| | | | | TOTAL | NET | | | | | | | |
| MISSOURI RIVER BASIN (ABOVE BLAIR TO NEBRASKA CITY) PLATTE RIVER BASIN (BELOW NORTH PLATTE) (Continued) | | | | | | | | | | | | |
| 35-19a | Max Miller No. 1..... | Trib. of W. Nishnabotna R..... | Macedonia, Iowa..... | 0.223 | 0.218 | Nov. 1941 | -- | 43.84 | 196 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1949 | 7.5 | 35.46 | 159 | 65.2 | 4.005 | 5,690 |
| 35-20a | Max Miller No. 5..... | do..... | do..... | .233 | .228 | Nov. 1941 | -- | 53.19 | 223 | 69.7 | 1.39 | 2,110 |
| | do..... | do..... | do..... | -- | -- | May 1949 | 7.5 | 41.94 | 180 | 72.6 | 5.17 | 8,175 |
| 35-21a | Barney Mundt..... | do..... | do..... | -- | -- | June 1952 | 3.1 | 41.06 | 176 | 74.5 | 1.05 | 1,705 |
| | do..... | Trib. of Boyer River..... | Denison, Iowa..... | .336 | .330 | Oct. 1944 | -- | 41.35 | 123 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1949 | 4.5 | 33.08 | 98.6 | 54.8 | 3.29 | 3,930 |
| 35-22a | Tracy North..... | do..... | do..... | -- | -- | June 1952 | 3.2 | 29.22 | 86.9 | 55.5 | 3.09 | 3,740 |
| | do..... | do..... | Vail, Iowa..... | .245 | .238 | Nov. 1939 | -- | 48.64 | 199 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1949 | 9.4 | 40.04 | 163 | 52.7 | 3.84 | 4,410 |
| 35-23 | Lake Ericson..... | do..... | do..... | -- | -- | July 1953 | 4.3 | 37.41 | 153 | 55.7 | 2.57 | 3,120 |
| | do..... | Cedar River..... | Ericson, Nebr..... | 500 | 41 | May 1915 | -- | -- | -- | -- | -- | -- |
| 35-24 | Roe Farm Pond..... | do..... | do..... | -- | -- | Apr. 1948 | 32.9 | 1,066 | 26 | 80 | .434 | 756 |
| | do..... | Unnamed Trib. of Turkey Cr..... | Dannebrog, Nebr..... | .18 | .18 | July 1947 | -- | -- | -- | -- | -- | -- |
| 35-25 | Howe Farm Pond..... | do..... | do..... | -- | -- | Aug. 1953 | 5 | -- | -- | *65 | .39 | 505 |
| | do..... | do..... | Loup City, Nebr..... | 1.80 | 1.79 | Aug. 1948 | -- | 15.6 | 9 | -- | -- | -- |
| 35-26 | Moller Farm Pond..... | do..... | do..... | -- | -- | Aug. 1953 | 5 | 13.9 | 8 | *65 | .20 | 283 |
| | do..... | do..... | Farewell, Nebr..... | .358 | .354 | Aug. 1949 | -- | 15.40 | 43 | -- | -- | -- |
| 35-27 | Ruzicka Farm Pond..... | do..... | do..... | -- | -- | Aug. 1953 | 4 | 14.39 | 40 | *65 | .71 | 1,005 |
| | do..... | do..... | do..... | .27 | .26 | Aug. 1949 | -- | 30.74 | 114 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1953 | 4 | 28.03 | 104 | *65 | 2.62 | 3,709 |
| RIVER BASIN (NIOBRARA TO ABOVE BLAIR) JAMES AND BIG SIOUX RIVER BASINS | | | | | | | | | | | | |
| 36-1 | Split Rock..... | Trib. of Big Sioux River..... | Ihlen, Minn..... | 41.3 | 41.1 | July 1938 | -- | 899.0 | 21.8 | -- | -- | -- |
| 36-2a | C. A. Stiles..... | do..... | do..... | -- | -- | June 1949 | 10.9 | 692.1 | 16.8 | 42.8 | 0.462 | 431 |
| | do..... | Trib. of Ashton Creek..... | Washita, Iowa..... | .593 | .572 | Dec. 1940 | -- | 52.5 | 133 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1949 | 8.3 | 46.1 | 119 | 46.9 | 1.54 | 1,580 |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1.5 | 44.5 | 117 | *57.8 | 1.82 | 2,300 |
| 36-3 | Farmers' Ditch Old Desilting Basin..... | do..... | do..... | -- | -- | Feb. 1953 | 2.4 | 43.3 | 114 | 57.8 | .98 | 1,240 |
| | do..... | do..... | do..... | -- | -- | Apr. 1941 | -- | 674 | 29.4 | -- | -- | -- |
| 36-4 | Strunk Farm Pond..... | do..... | do..... | -- | -- | Feb. 1945 | 3.8 | 275 | 12.0 | 68.3 | 4.91 | 7,300 |
| | do..... | do..... | Mayfield, S. D..... | .408 | .407 | July 1947 | -- | 4.09 | 10.5 | -- | -- | -- |
| 36-5 | Broderick Farm Pond..... | do..... | do..... | -- | -- | July 1953 | 6 | 3.37 | 8.28 | *65 | .30 | 411 |
| | do..... | do..... | Volin, S. D..... | 2.46 | 2.45 | July 1951 | -- | 25.19 | 10 | -- | -- | -- |
| 36-6 | Masters Upper Reservoir..... | do..... | do..... | -- | -- | July 1953 | 2 | 20.10 | 8 | *55 | 1.04 | 1,246 |
| | do..... | do..... | Mapleton, Iowa..... | .178 | .169 | Dec. 1949 | -- | 37.95 | 213 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | .79 | 35.25 | 198 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1951 | .87 | 35.25 | 195 | *77.7 | 2/20.1 | 2/34,015 |
| | do..... | do..... | do..... | -- | -- | Apr. 1952 | .73 | 34.80 | 195 | *77.7 | 2/3.67 | 2/6,211 |
| 36-7 | Nepper Main..... | do..... | do..... | -- | -- | Nov. 1952 | .60 | 34.80 | 195 | 77.7 | -- | -- |
| | do..... | do..... | Mapleton, Iowa..... | .196 | .186 | Mar. 1949 | -- | 38.1 | 194 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1950 | 1.37 | 37.8 | 193 | *76.1 | 1.25 | 2,070 |
| | do..... | do..... | do..... | -- | -- | July 1951 | 1.01 | 34.4 | 176 | 76.1 | 17.96 | 29,768 |
| 36-8 | Nepper Southwest..... | do..... | do..... | -- | -- | Nov. 1952 | 1.31 | 34.4 | 176 | 76.1 | -- | -- |
| | do..... | do..... | do..... | .075 | .069 | Mar. 1949 | -- | 8.45 | 113 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1950 | 1.42 | 8.45 | 113 | *72.7 | 3/ | 3/ |
| | do..... | do..... | do..... | -- | -- | Aug. 1951 | .98 | 7.66 | 105 | 72.7 | 8.41 | 13,319 |
| 36-9 | Theobald Main..... | do..... | do..... | -- | -- | Nov. 1952 | 1.30 | 7.88 | 105 | 72.7 | 3/ | 3/ |
| | do..... | do..... | Anthony, Iowa..... | .483 | .442 | June 1949 | -- | 103.2 | 213 | -- | -- | -- |

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | | |
|--|---|--------------------------------------|------------------------|-------------------------------|-------|----------------|---------------------------------|-----------------------------|---|--|--|-------|--|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS | |
| | | | | | | | | | | | | | |
| MISSOURI RIVER BASIN (ABOVE PIERRE TO NIOBRARA) (Continued) | | | | | | | | | | | | | |
| Niobrara and White River Basins | | | | | | | | | | | | | |
| 37-19 | Land Utilization Project No. 243-10..... | Unnamed Trib. of Missouri River..... | Pierre, S. D..... | 0.533 | 0.532 | June 1938 | -- | 3.7 | 6.94 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | July 1945 | 7.1 | 2.9 | 5.44 | -- | 0.222 | -- | |
| 37-20 | Land Utilization Project No. 243-11..... |do..... |do..... | .339 | .338 | July 1938 | -- | 4.5 | 13.3 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | July 1945 | 7.0 | 3.9 | 11.5 | -- | .266 | -- | |
| MISSOURI RIVER BASIN (MOBRIDGE TO ABOVE PIERRE) | | | | | | | | | | | | | |
| Cheyenne and Belle Fourche River Basins | | | | | | | | | | | | | |
| 38-1 | Johnson's Stock Pond..... | Trib. of L. Cheyenne Creek..... | Gettysburg, S. D..... | 0.191 | 0.188 | -- 1912 | -- | 2.56 | 13.4 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | June 1937 | 25.0 | 1.85 | 9.69 | 58.1 | 0.16 | 202 | |
| 38-2 | Bartel Stock Pond..... | Little Cheyenne Creek..... |do..... | .609 | .606 | -- 1908 | -- | 4.30 | 7.06 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | June 1937 | 29.0 | 2.80 | 4.60 | 53.6 | .08 | 93.4 | |
| MISSOURI RIVER BASIN (WILLISTON TO MOBRIDGE) | | | | | | | | | | | | | |
| Moreau, Grand, Cannonball, Heart, and Little Missouri River Basins | | | | | | | | | | | | | |
| 39- | | | | | | | | | | | | | |
| 40- | | | | | | | | | | | | | |
| 41- | | | | | | | | | | | | | |
| MISSOURI RIVER BASIN (ZORTMAN TO WILLISTON) | | | | | | | | | | | | | |
| Milk and Musselshell River Basins | | | | | | | | | | | | | |
| MISSOURI RIVER BASIN (ABOVE ZORTMAN) | | | | | | | | | | | | | |
| LOWER YELLOWSTONE RIVER BASIN | | | | | | | | | | | | | |
| Tongue and Powder River Basins | | | | | | | | | | | | | |
| 42-1 | Baker..... | Sandstone Creek..... | Baker, Mont..... | 5.20 | 5.01 | May 1908 | -- | 756 | 145 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | May 1937 | 29.1 | 502 | 96.5 | 39 | 1.74 | 1,478 | |
| 42-2 | Tongue River..... | Tongue River..... |do..... | 1,740 | 1,734 | May 1939 | -- | 72,510 | 41.67 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | Oct. 1948 | 9.42 | 69,439 | 39.91 | 70.5 | .188 | 288.7 | |
| UPPER YELLOWSTONE RIVER BASIN | | | | | | | | | | | | | |
| 43-1 | Buffalo Bill..... | Shoshone River..... | Cody, Wyo..... | 1,470 | 1,460 | -- 1910 | -- | 455,838 | 310.09 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | -- 1947 | -- | 439,851 | 299.22 | -- | 0.353 | -- | |
| ARKANSAS RIVER BASIN (VANBUREN TO LITTLE ROCK) WHITE RIVER BASIN | | | | | | | | | | | | | |
| 44-1 | Lake Bennett..... | East Fork Creek..... | Conway, Ark..... | 4.16 | 4.11 | June 1935 | -- | 494 | 119 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | Nov. 1935 | 0.4 | 490 | 118 | -- | 2.63 | -- | |
| |do..... |do..... |do..... | -- | -- | Nov. 1946 | 11.0 | 481 | 116 | -- | .20 | -- | |
| 44-2 | Lake Booneville..... | Trib. of Petit Jean Creek..... | Booneville, Ark..... | 2.60 | 2.57 | Mar. 1929 | -- | 289 | 111 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | Nov. 1935 | 6.75 | 282 | 108 | -- | .455 | -- | |
| 44-3 | Lake Fort Smith..... | Jack and Jones Creeks..... | Mountainburg, Ark..... | 65 | 64 | Feb. 1936 | -- | 13,810 | 212 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | Apr. 1940 | 4.2 | 13,727 | 211 | -- | .31 | -- | |
| 44-4 | Lake Bailey..... | Cedar Creek..... | Morrilton, Ark..... | 15.2 | 15 | Sept. 1937 | -- | 629 | 41 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | May 1940 | 2.7 | 602 | 40 | -- | .66 | -- | |
| 44-5 | Lake Taneycomo..... | White River..... | Branson, Mo..... | 4,610 | 4,606 | Mar. 1913 | -- | 43,980 | 9.54 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | Aug. 1935 | 22.4 | 23,714 | 5.14 | -- | .196 | -- | |
| 44-6 | Nimrod..... | Fourche La Fave River..... | Nimrod, Ark..... | 680 | 652 | May 1942 | -- | 336,000 | 494 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | Apr. 1950 | 7.9 | 1/336,000 | 1/494 | -- | 1/ | -- | |
| 44-7 | Norfolk..... | North Fork River..... | Norfolk, Ark..... | 1,806 | 1,772 | June 1943 | -- | 1,560,500 | 864 | -- | -- | -- | |
| |do..... |do..... |do..... | -- | -- | May 1950 | 6.9 | 2/1,560,500 | 2/864 | -- | 2/ | -- | |

| | | | | | | | | | | | |
|---|---|-----------------------------------|---------------------------|---------|---------|------------|-------|---------|-------|---------|------------|
| 44-8 | Cove Lake..... | Arkansas River Trib..... | Paris, Ark..... | 10.30 | 10.66 | May 1938 | -- | 2,206 | -- | 207 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1953 | 15.5 | 2,141 | -- | 201 | -- |
| 44-9 | Charleston Lake..... | do..... | Charleston, Ark..... | 1.03 | .93 | Apr. 1937 | -- | 325 | -- | 314 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1953 | 16.66 | 264 | -- | 256 | -- |
| ARKANSAS RIVER BASIN (TULSA TO VAN BUREN) | | | | | | | | | | | |
| Grand, Verdigris and Lower Canadian River Basins | | | | | | | | | | | |
| 45-1 | Lake Wedington..... | Trib. of Illinois River..... | Fayetteville, Ark..... | 4.06 | 3.92 | July 1937 | -- | 1,260 | -- | 310 | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1947 | 10.1 | 1,249 | -- | 308 | -- |
| 45-2 | Wilson..... | Wilson Creek..... | do..... | 2.35 | 2.30 | Oct. 1930 | -- | 522 | -- | 222 | -- |
| | do..... | do..... | do..... | -- | -- | June 1940 | 9.75 | 517 | -- | 220 | -- |
| 45-3 | Lake Sapulpa..... | Euchee Creek..... | Sapulpa, Okla..... | 8.72 | 8.57 | -- 1913 | -- | 1,094 | -- | 125 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1935 | 22.5 | 911 | -- | 104 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1946 | 11.0 | 842 | -- | 97 | -- |
| 45-4a | Brown Lake..... | Peaceable Creek..... | McAlester, Okla..... | 20.9 | 19.9 | May 1943 | -- | 4,995 | -- | 251 | -- |
| | do..... | do..... | do..... | -- | -- | July 1952 | 9.2 | 4,660 | 54.2 | 234 | 1.83 2,160 |
| 45-5 | Lake McAlester..... | Bull Creek..... | do..... | 30.7 | 28.2 | -- 1919 | -- | 18,397 | -- | 599 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1941 | 22 | 17,509 | -- | 570 | -- |
| 45-6 | Lake Okmulgee..... | Salt Creek..... | Okmulgee, Okla..... | 40.1 | 39.2 | -- 1928 | -- | 10,355 | -- | 258 | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1950 | 22 | 9,896 | -- | 247 | -- |
| 45-7 | Shawnee Lake..... | So. R. Deer Creek..... | Shawnee, Okla..... | 21.0 | 18.9 | Aug. 1935 | -- | 24,568 | -- | 1,170 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1947 | 12.3 | 23,816 | -- | 1,134 | -- |
| | do..... | do..... | do..... | -- | -- | -- 1937 | -- | 580 | -- | 252 | -- |
| 45-8 | Taft Lake..... | Br. of Pecan Creek..... | Taft, Okla..... | 2.3 | 2.2 | Sept. 1947 | 10 | 574 | -- | 250 | -- |
| | do..... | do..... | do..... | -- | -- | -- 1936 | -- | 2,341 | -- | 511 | -- |
| 45-9 | Hiwassee Lake..... | Unnamed Trib. of Deep Fk. Ct..... | Arcadia, Okla..... | 4.58 | 4.29 | Apr. 1950 | 14 | 2,158 | -- | 471 | -- |
| | do..... | do..... | do..... | -- | -- | -- 3/ | -- | 570 | -- | 29 | -- |
| 45-10 | Lake Carleton..... | Fourche Maline Creek..... | Wilburton, Okla..... | 19.8 | 19.7 | July 1947 | 14 | 511 | -- | 26 | -- |
| | do..... | do..... | do..... | -- | -- | June 1931 | -- | 9,844 | -- | 1,100 | -- |
| 45-11 | Holdenville City Lake..... | Reemore Creek..... | Holdenville, Okla..... | 8.95 | 8.30 | Apr. 1950 | 18.8 | 9,030 | -- | 1,009 | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1936 | -- | 344 | -- | 142 | -- |
| 45-12 | Pretty Water Lake..... | Pretty Water Creek..... | Sapulpa, Okla..... | 2.43 | 2.40 | Dec. 1946 | 10.75 | 322 | -- | 133 | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1937 | -- | 13,005 | -- | 160 | -- |
| 45-13 | Greenleaf Lake..... | Rig Greenleaf Creek..... | Muskogee, Okla..... | 81.25 | 79.84 | Mar. 1941 | 4.7 | 12,828 | -- | 158 | -- |
| | do..... | do..... | do..... | -- | -- | -- 1897 | -- | 111 | -- | 46 | -- |
| 45-15 | Kirk Lake..... | do..... | Iola, Kans..... | 2.41 | 2.36 | Sept. 1939 | 42 | 69 | 48.10 | 29 | .43 450 |
| 45-16 | Lowell..... | Sprg. R. & Shoal Creek..... | Baxter Springs, Kans..... | 2,210.0 | 2,208.6 | Mar. 1905 | -- | 10,404 | -- | 4,71 | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1939 | 34.4 | 7,580 | -- | 3.43 60 | .04 52.3 |
| 45-17 | Neosha County State Lake (Lake McKinley)..... | Small Trib. of Neosha R..... | Parsons, Kans..... | 3.39 | 3.24 | July 1927 | -- | 680 | -- | 201 | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1939 | 12.1 | 651 | -- | 193 | -- |
| 45-18 | Lake Claremore..... | Dog Creek..... | Claremore, Okla..... | 56.44 | 55.70 | May 1931 | -- | 4,258 | -- | 75 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1939 | 8.4 | 3,909 | 51.17 | 69 | 835 |
| 45-19 | Lake Spavinaw..... | Spavinaw Creek..... | Spavinaw, Okla..... | 40.0 | 397.2 | Apr. 1924 | -- | 31,686 | -- | 79.2 | -- |
| | do..... | do..... | do..... | -- | -- | July 1935 | 11 | 30,509 | -- | 76.3 | -- |
| 45-20 | Kennamer Lake..... | Unnamed Trib. of Pryors Cr..... | Chelsea, Okla..... | .28 | .27 | -- 1923 | -- | 28 | -- | 100 | -- |
| | do..... | do..... | do..... | -- | -- | -- 1939 | 16 | 26.5 | -- | 94.6 | -- |
| 45-21 | State Fish Hatchery Lake..... | Happy Creek..... | Claremore, Okla..... | 1.21 | 1.20 | -- 1934 | -- | 34.0 | -- | 28.1 | -- |
| | do..... | do..... | do..... | -- | -- | -- 1939 | 5 | 32.9 | -- | 27.2 | -- |
| 45-22 | Lake Scarbow..... | Trib. of Pryor Creek..... | Pryor, Okla..... | 3.07 | 3.04 | -- 1931 | -- | 123 | -- | 40.1 | -- |
| | do..... | do..... | do..... | -- | -- | -- 1939 | 8 | 111.9 | -- | 36.4 | -- |
| 45-23 | Wewoka Lake..... | Coon Cr. or Spring Creek..... | Wewoka, Okla..... | 16.27 | 15.72 | July 1925 | -- | 4/4,961 | -- | 305 | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1945 | 19.6 | 4/4,489 | -- | 276 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1934 | 0.0 | 4/4,357 | -- | 263 | -- |
| 45-24 | Wetunka City Lake..... | Salt Creek..... | Wetunka, Okla..... | 4.15 | 3.88 | Jan. 1931 | -- | 2,076 | -- | 500 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1954 | 23.2 | 1,898 | -- | 457 | -- |
| ARKANSAS RIVER BASIN (GARDEN CITY TO TULSA) | | | | | | | | | | | |
| Middle Canadian, Lower Cimarron, and Salt Fork River Basins | | | | | | | | | | | |
| 46-1 | Fort Supply..... | Wolf Creek..... | Supply, Okla..... | 1.735 | 1.726 | Jan. 1943 | -- | 107,300 | -- | 62 | -- |
| | do..... | do..... | do..... | -- | -- | June 1949 | 6.4 | 106,100 | 57.8 | 61 | 0.108 136 |
| 46-2 | Great Salt Plains..... | Salt Fk. of Arkansas River..... | Jet, Okla..... | 3.206 | 3.156 | June 1941 | -- | 308,000 | -- | 96 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1949 | 8.5 | 292,000 | 48.6 | 91 | .586 620 |
| 46-3 | Boomer Lake..... | Boomer Creek..... | Stillwater, Okla..... | 9.13 | 8.67 | Mar. 1925 | -- | 2,812 | -- | 308 | -- |
| | do..... | do..... | do..... | -- | -- | June 1935 | 10.25 | 2,641 | 60 | 289 | 1.93 2,522 |

1/Suspended-load in flow was 603 acre-feet; suspended load outflow was 200 acre feet during period.
 Deposits too small to measure by range survey.
 2/Sediment in flow volume was computed to be 2,350 acre-feet; much of this probably settled out over a large area in deposits too thin to be measured accurately by echo sounders.
 3/Original at 1935 Crest.
 4/Dam raised 11 feet March 1946; all values based on present elevation.
 5/Dam broke April 1943; rebuilt March 1946; this period was not included.
 *Estimated or assumed.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | | |
|--|--|--------------------------------|---------------------------|-------------------------------|---------|----------------|---------------------------------|-----------------------------|---|--|--|-------|--|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS | |
| | | | | | | | | | | | | | |
| ARKANSAS RIVER BASIN (GARDEN CITY TO TULSA) Middle Canadian, Lower Cimarron, and Salt Fork River Basins | | | | | | | | | | | | | |
| 46-4 | Bennington's Lake..... | Chikaskia River..... | Rago, Kans..... | 1.42 | -- | 1.40 Aug. 1929 | -- | 75 | 52.8 | -- | -- | -- | |
| 46-5 | do..... | do..... | do..... | -- | -- | Oct. 1940 | 11.2 | 33 | 23.2 | 69.47 | 2.68 | 4,055 | |
| 46-6 | Meade County State Lake (Lake Larrabee)..... | Stump Arroya..... | Meade, Kans..... | 18.00 | -- | June 1928 | -- | 891 | 49.5 | -- | -- | -- | |
| 46-6 | do..... | do..... | do..... | -- | -- | Apr. 1937 | 8.8 | 819 | 45.5 | *60 | .459 | 600 | |
| 46-7 | Lake Medicine..... | Medicine Lodge Creek..... | Medicine Lodge, Kans..... | 1.89 | -- | Aug. 1929 | -- | 365 | 193 | -- | -- | -- | |
| 46-7 | do..... | do..... | do..... | -- | -- | Oct. 1940 | 11.2 | 295 | 156 | 98.52 | 3.40 | 7,296 | |
| 46-7 | Santa Fe..... | Indianola Creek..... | Augusta, Kans..... | 37.93 | -- | Oct. 1928 | -- | 1,741 | 45.9 | -- | -- | -- | |
| 46-8 | do..... | do..... | do..... | -- | -- | May 1937 | 8.6 | 1,595 | 42.1 | 58.1 | .45 | 569 | |
| 46-8 | Guthrie..... | Trib. of Cottonwood Creek..... | Guthrie, Okla..... | 13.30 | -- | Oct. 1920 | -- | 3,064 | 230 | -- | -- | -- | |
| 46-9 | do..... | do..... | do..... | -- | -- | May 1935 | 14.5 | 2,608 | 196 | *60 | 2.42 | 3,162 | |
| 46-9 | Gelmer's Stock Pond..... | Bois d'Arc Creek..... | Blackwell, Okla..... | .31 | -- | Oct. 1939 | -- | 3.74 | 12.1 | -- | -- | -- | |
| 46-9 | do..... | do..... | do..... | -- | -- | Sept. 1940 | 1.0 | 3.43 | 11.1 | *65 | 1.0 | 1,416 | |
| 46-10 | Harris Stock Pond..... | do..... | do..... | .22 | -- | Apr. 1938 | -- | 12.63 | 57.4 | -- | -- | -- | |
| 46-10 | do..... | do..... | do..... | -- | -- | Sept. 1940 | 2.5 | 12.37 | 56.2 | *65 | .495 | 701 | |
| 46-11 | Lake Eldorado..... | Satchel Creek..... | Eldorado, Kans..... | 35.1 | -- | -- 1928 | -- | 3,213 | 91.5 | -- | -- | -- | |
| 46-12 | do..... | do..... | do..... | -- | -- | Apr. 1937 | 9 | 3,082 | 87.8 | 66 | .426 | 612 | |
| 46-12 | Lake Fryer..... | Wolf Creek..... | Perryton, Tex..... | 108 | -- | -- 1939 | -- | 844 | 781 | -- | -- | -- | |
| 46-12 | do..... | do..... | do..... | -- | -- | May 1947 | 7.4 | 717 | 664 | -- | .16 | -- | |
| 46-13 | Canton..... | North Canadian River..... | Canton, Okla..... | 12,483 | 1/6,081 | July 1947 | -- | 401,500 | -- | -- | -- | -- | |
| 46-13 | do..... | do..... | do..... | -- | -- | May 1953 | 5.8 | 390,800 | -- | 70.9 | .303 | 468 | |
| ARKANSAS RIVER BASIN (LAMAR TO GARDEN CITY) Upper Cimarron and Upper Canadian River Basin | | | | | | | | | | | | | |
| 47-1 | Conchas..... | Canadian River..... | Newkirk, New Mex..... | 7,350 | 6,950 | Jan. 1939 | -- | 601,112 | 82 | -- | -- | -- | |
| 47-1 | do..... | do..... | do..... | -- | -- | May 1940 | 1.4 | 599,712 | 82 | 75.7 | -- | -- | |
| 47-1 | do..... | do..... | do..... | -- | -- | June 1942 | 2.1 | 585,112 | 80 | 75.7 | -- | -- | |
| 47-1 | do..... | do..... | do..... | -- | -- | Nov. 1942 | .4 | 581,112 | 79 | 75.7 | -- | -- | |
| 47-1 | do..... | do..... | do..... | -- | -- | Oct. 1944 | 1.9 | 78 | 77 | 75.7 | -- | -- | |
| 47-1 | do..... | do..... | do..... | -- | -- | Feb. 1949 | 4.3 | 566,163 | 77 | 75.7 | -- | -- | |
| 47-2 | Reservoir No. 2..... | (Offstream)..... | Maxwell, New Mex..... | -- | -- | -- 1912 | -- | 3,010 | -- | -- | -- | -- | |
| 47-2 | do..... | do..... | do..... | -- | -- | -- 1946 | 34 | 1,836 | -- | -- | -- | -- | |
| 47-3 | Reservoir No. 7 and 8..... | do..... | do..... | -- | -- | -- 1912 | -- | 2/1,064 | -- | -- | -- | -- | |
| 47-3 | do..... | do..... | do..... | -- | -- | -- 1946 | 34 | 2,063 | -- | -- | -- | -- | |
| 47-4 | Reservoir No. 11..... | do..... | do..... | -- | -- | -- 1912 | -- | 3/1,004 | -- | -- | -- | -- | |
| 47-4 | do..... | do..... | do..... | -- | -- | -- 1946 | 34 | 637 | -- | -- | -- | -- | |
| 47-5 | Reservoir No. 12..... | do..... | do..... | -- | -- | -- 1912 | -- | 4/2,260 | -- | -- | -- | -- | |
| 47-5 | do..... | do..... | do..... | -- | -- | -- 1946 | 34 | 1,822 | -- | -- | -- | -- | |
| 47-6 | Reservoir No. 13..... | do..... | do..... | -- | -- | -- 1912 | -- | 5/2,236 | -- | -- | -- | -- | |
| 47-6 | do..... | do..... | do..... | -- | -- | -- 1946 | 34 | 1,628 | -- | -- | -- | -- | |
| 47-7 | Reservoir No. 14..... | do..... | do..... | -- | -- | -- 1912 | -- | 6/816 | -- | -- | -- | -- | |
| 47-7 | do..... | do..... | do..... | -- | -- | -- 1946 | 34 | 680 | -- | -- | -- | -- | |
| RIO GRANDE BASIN (ABOVE ESPANOLA) AND ARKANSAS RIVER BASIN | | | | | | | | | | | | | |
| 48-1 | John Martin..... | Arkansas River..... | Caddoa, Colo..... | 18,933 | 17,080 | Apr. 1942 | -- | 701,775 | 37 | -- | -- | -- | |
| 48-1 | do..... | do..... | do..... | -- | -- | July 1942 | 0.3 | 690,345 | 37 | 75.7 | -- | -- | |
| 48-1 | do..... | do..... | do..... | -- | -- | Dec. 1943 | 1.4 | 688,550 | 36 | 75.7 | -- | -- | |

| | | | | | | | | | | |
|------|----------------------------|------------------------------|-----------------------|-----------------------|------------|------|---------|-------|-------|-------|
| 48-2 | do..... | do..... | do..... | do..... | Sept. 1944 | .7 | 683,257 | 36 | 75.7 | -- |
| | do..... | do..... | do..... | do..... | May 1948 | 3.7 | 675,087 | 36 | 75.7 | -- |
| | do..... | do..... | do..... | do..... | Oct. 1951 | 3.4 | 662,870 | 35 | 75.7 | -- |
| | Brown Reservoir No. 1..... | Van Bremer Arroyo..... | Frindad, Colo..... | Frindad, Colo..... | -- 1900 | -- | 758 | 10.2 | -- | -- |
| | do..... | do..... | do..... | do..... | Nov. 1939 | 39 | 82 | 1.10 | 89.07 | 233 |
| 48-3 | Muddy Creek..... | Muddy Cr., Johnny Creek..... | Caddos, Colo..... | Caddos, Colo..... | Fall 1919 | -- | 16,918 | 109.7 | -- | 452 |
| | do..... | do..... | do..... | do..... | Dec. 1939 | 20 | 15,287 | 99.1 | 75.25 | 535 |
| 48-4 | Horse Creek 7/..... | Horse Creek..... | Ordway, Colo..... | Ordway, Colo..... | Nov. 1900 | -- | 36,203 | 696 | -- | 877 |
| | do..... | do..... | do..... | do..... | Apr. 1930 | 39.4 | 30,738 | 50.8 | 68.36 | 241 |
| 48-5 | Teller..... | Turkey Creek..... | Pueblo, Colo..... | Pueblo, Colo..... | Mar. 1911 | -- | 4,005 | 31.3 | 75.4 | 1,117 |
| | do..... | do..... | do..... | do..... | Feb. 1940 | 28.9 | 2,463 | 63 | -- | -- |
| 48-6 | Cucharas..... | Cucharas River..... | Walsenburg, Colo..... | Walsenburg, Colo..... | -- 1912 | -- | 38,274 | 41 | -- | 87 |
| | do..... | do..... | do..... | do..... | -- 1937 | 25 | 25,020 | 61 | -- | -- |
| | do..... | do..... | do..... | do..... | -- 1939 | 27 | 23,040 | 38 | -- | 93 |

RED RIVER BASIN (DENISON TO GRAND ECORE) Little and Sulphur River Basins

| | | | | | | | | | | |
|------|-------------------|---------------------------|---------------------|---------------------|------------|------|--------|------|-------|-------|
| 49-1 | Lake Creek..... | Pine Creek..... | Paris, Texas..... | Paris, Texas..... | Feb. 1923 | -- | 11,487 | 214 | -- | -- |
| | do..... | do..... | do..... | do..... | Mar. 1936 | 13.1 | 10,755 | 201 | -- | 1.08 |
| 49-2 | Lake Gibbons..... | Trib. of Pine Creek..... | do..... | do..... | -- 1906 | -- | 81,414 | 968 | -- | -- |
| | do..... | do..... | do..... | do..... | Mar. 1936 | 36 | 1,336 | 915 | -- | 1.72 |
| 49-3 | Nashville..... | Mine Creek..... | Nashville, Ark..... | Nashville, Ark..... | Mar. 1931 | -- | 181 | 17.4 | -- | -- |
| | do..... | do..... | do..... | do..... | July 1941 | 10.3 | 128 | 12.3 | -- | .50 |
| 49-4 | Jenkins Pond..... | Trib. of Lewis Creek..... | Mansfield, La..... | Mansfield, La..... | Sept. 1925 | -- | 157 | 449 | -- | -- |
| | do..... | do..... | do..... | do..... | Sept. 1954 | 29 | 150 | 429 | 68.60 | 1,165 |

RED RIVER BASIN (ABOVE DENISON)

| | | | | | | | | | | |
|--------|-----------------------------------|---------------------------------|---------------------|---------------------|-------------|------|-----------|-------|-------|-------|
| 50-1 | Ardmore Club Lake..... | Caddo Creek..... | Ardmore, Okla..... | Ardmore, Okla..... | Dec. 1922 | -- | 1,797 | 433 | -- | -- |
| | do..... | do..... | do..... | do..... | June 1938 | 15.5 | 1,644 | 396 | 40.7 | 2,234 |
| 50-2 | Byars Club Lake..... | Unnamed Stream..... | Byars, Okla..... | Byars, Okla..... | -- 1904 | -- | 507 | 191 | -- | -- |
| | do..... | do..... | do..... | do..... | -- 1950 | 46 | 371 | 139 | -- | 1.16 |
| 50-3 | Carter Lake..... | Big Glasses Creek..... | Madill, Okla..... | Madill, Okla..... | -- 1936 | -- | 865 | 478 | -- | -- |
| | do..... | do..... | do..... | do..... | Nov. 1949 | 13 | 837 | 462 | -- | 1.26 |
| 50-4 | J. J. Harrison Lake..... | Unnamed Trib. of Washita R..... | Lindsay, Okla..... | Lindsay, Okla..... | Feb. 1932 | -- | 349 | 397 | -- | -- |
| | do..... | do..... | do..... | do..... | Mar. 1950 | 18 | 282 | 320 | -- | 4.59 |
| 50-5 | C. W. Lester Farm Pond No. 2..... | Trib. of Broken Leg Creek..... | Cheyenne, Okla..... | Cheyenne, Okla..... | -- 1945 | -- | 42.4 | 20.8 | -- | -- |
| | do..... | do..... | do..... | do..... | June 1949 | 4 | 22.8 | 11.2 | -- | 2.41 |
| 50-6 | C. W. Lester Farm Pond No. 2..... | do..... | do..... | do..... | June 1944 | -- | 16.3 | 25.5 | -- | -- |
| | do..... | do..... | do..... | do..... | June 1949 | 5.0 | 13.1 | 20.5 | -- | 1.02 |
| 50-7 | Santa Rosa Lake..... | Beaver Creek..... | Vernon, Tex..... | Vernon, Tex..... | Oct. 1929 | -- | 15,755 | 46.9 | -- | -- |
| | do..... | do..... | do..... | do..... | Jan. 1948 | 18.2 | 11,568 | 34.4 | -- | .689 |
| 50-8 | Lake Duncan..... | Fitzpatrick Creek..... | Duncan, Okla..... | Duncan, Okla..... | Oct. 1937 | -- | 6,291 | 572 | -- | -- |
| | do..... | do..... | do..... | do..... | Aug. 1950 | 12.8 | 5,783 | 596 | 63.4 | 3.82 |
| 50-9 | Lake Clinton..... | Turkey Creek..... | Canute, Okla..... | Canute, Okla..... | Dec. 1930 | -- | 4,415 | 187 | -- | -- |
| | do..... | do..... | do..... | do..... | June 1938 | 7.4 | 3,981 | 169 | 63.36 | 2.54 |
| | do..... | do..... | do..... | do..... | Nov. 1950 | 12.4 | 3,343 | 142 | 65.9 | 2.23 |
| 50-10 | Bellevue..... | Clay Creek..... | Bellevue, Tex..... | Bellevue, Tex..... | -- 1888 | -- | 131 | 87 | -- | -- |
| | do..... | do..... | do..... | do..... | May 1938 | 50 | 85 | 59 | -- | .64 |
| 50-11a | Altus..... | North Fork Red River..... | Altus, Okla..... | Altus, Okla..... | Dec. 1940/9 | -- | 156,668 | 74.04 | -- | -- |
| | do..... | do..... | do..... | do..... | June 1946 | 7.5 | 148,640 | 70.25 | 52.3 | .506 |
| | do..... | do..... | do..... | do..... | July 1953 | 5.1 | 142,862 | 67.52 | 66.9 | .535 |
| 50-12 | Lake Texoma (Denison Dam)..... | Red River..... | Denison, Tex..... | Denison, Tex..... | July 1942 | -- | 5,859,000 | -- | -- | -- |
| | do..... | do..... | do..... | do..... | Oct. 1948 | 6.2 | 5,718,000 | -- | 52.1 | .784 |

- 1/ Excludes 4,642 square miles of watershed not contributing to runoff of which 1,735 square miles are above Ft. Supply Dam and 25 square miles of Cauton Reservoir Surface.
- 2/ During the period 1912-1946 a total of 2,435 acre-feet capacity was added by reservoir enlargement.
- 3/ During the period 1912-1946 a total of 126 acre-feet capacity was added by reservoir enlargement.
- 4/ During the period 1912-1946 a total of 672 acre-feet capacity was added by reservoir enlargement.
- 5/ During the period 1912-1946 a total of 490 acre-feet capacity was added by reservoir enlargement.
- 6/ During the period 1912-1946 a total of 264 acre-feet capacity was added by reservoir enlargement.
- 7/ Off channel reservoir.
- 8/ Spillway crest was lowered 3 feet in 1932; capacities are based on present elevation.
- 9/ Initial survey for new dam over deposits in old reservoir.
- * Estimated or assumed.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|--|------------------------------------|---------------------------------|------------------------|-------------------------------|-------|----------------|---------------------------------|-----------------------------|---|--|--|-------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| SABINE, NECHES, AND TRINITY RIVER BASINS | | | | | | | | | | | | |
| 51-1 | Terrell City Lake..... | Kings Creek..... | Terrell, Tex..... | 9.20 | 8.71 | Oct. 1921 | -- | 2,219 | 241 | -- | -- | -- |
| 51-2 | do..... | do..... | do..... | -- | -- | Dec. 1949 | 28.25 | 1,605 | 174 | 59.2 | 2.49 | 3,211 |
| 51-3 | Lower Beaton Lake..... | Unnamed Trib. of Elm Creek..... | Corsicana, Tex..... | .91 | .82 | -- 1895 | -- | 319 | 351 | -- | -- | -- |
| 51-3 | do..... | do..... | do..... | -- | -- | Sept. 1949 | 54 | 205 | 225 | -- | 2.57 | -- |
| 51-3 | Burke Neck Lake..... | do..... | do..... | .58 | .54 | -- 1880 | -- | 181 | 312 | -- | -- | -- |
| 51-4 | do..... | do..... | do..... | -- | -- | Sept. 1949 | 69 | 92 | 159 | -- | 2.39 | -- |
| 51-4 | Lake Dallas..... | Elm Fork of Trinity River..... | Denton, Tex..... | 1,174 | 1,157 | Feb. 1928 | -- | 180,759 | 154 | -- | -- | -- |
| 51-5 | do..... | do..... | do..... | -- | -- | Sept. 1938 | 10.5 | 167,072 | 142 | 53 | 1.13 | 1,304 |
| 51-5 | Lake Halbert..... | Elm Creek..... | Corsicana, Tex..... | 1/9.48 | 8.56 | -- 1921 | -- | 8,012 | 845 | -- | -- | -- |
| 51-5 | do..... | do..... | do..... | -- | -- | Sept. 1949 | 28 | 6,657 | 702 | 67.4 | 5.66 | 8,308 |
| 51-6 | Magnolia Lake (Red Horse)..... | Trib. of Elm Creek..... | do..... | .59 | .43 | -- 1885 | -- | 756 | 1,281 | -- | -- | -- |
| 51-6 | do..... | do..... | do..... | -- | -- | Sept. 1949 | 64 | 659 | 1,117 | -- | 3.53 | -- |
| 51-7 | Mountain Creek..... | Mountain Creek..... | Dallas, Tex..... | 280 | 274.4 | Mar. 1937 | -- | 37,520 | 134 | -- | -- | -- |
| 51-7 | do..... | do..... | do..... | -- | -- | Nov. 1946 | 9.7 | 27,100 | 97 | -- | 3.91 | -- |
| 51-8 | White Rock..... | White Rock Creek..... | do..... | 99.1 | 97.1 | -- 1911 | -- | 18,158 | 183 | -- | -- | -- |
| 51-8 | do..... | do..... | do..... | -- | -- | Apr. 1935 | 24 | 14,276 | 144 | 49 | 1.67 | 1,782 |
| 51-9 | Grand Saline..... | Simmons Branch..... | Grand Saline, Tex..... | 2.12 | 2.02 | Feb. 1925 | -- | 531 | 250 | -- | -- | -- |
| 51-9 | do..... | do..... | do..... | -- | -- | Apr. 1938 | 13.25 | 509 | 240 | 38.7 | .82 | 691 |
| 51-10 | T & P..... | Town Creek..... | Weatherford, Tex..... | 6.24 | 6.18 | -- 1930 | -- | 370 | 59 | -- | -- | -- |
| 51-10 | do..... | do..... | do..... | -- | -- | Nov. 1938 | 8.5 | 328 | 33 | 61 | .796 | 1,058 |
| 51-11 | Lake Clark..... | Waxahachie Creek..... | Ennis, Tex..... | 3.14 | 2.87 | -- 2/ | -- | 3/2,085 | 664 | -- | -- | -- |
| 51-11 | do..... | do..... | do..... | -- | -- | Dec. 1950 | -- | 3/1,741 | 554 | *50 | 2.60 | 2,831 |
| 51-12 | Kemp City..... | Cedar Creek..... | Kemp, Tex..... | 1.48 | 1.42 | June 1926 | -- | 376 | 254 | -- | -- | -- |
| 51-12 | do..... | do..... | do..... | -- | -- | Apr. 1939 | 12.8 | 298 | 201 | -- | 4.29 | -- |
| 51-13 | Variety Club Boys' Ranch Lake..... | Unnamed Trib..... | Bedford, Tex..... | .30 | .29 | June 1942 | -- | 38 | 127 | -- | -- | -- |
| 51-13 | do..... | do..... | do..... | -- | -- | Apr. 1950 | 7.8 | 33 | 110 | -- | 2.21 | -- |
| 51-14 | Willis Point..... | Magbee Creek..... | Willis Point, Tex..... | 1.83 | 1.75 | Sept. 1914 | -- | 396 | 216 | -- | -- | -- |
| 51-14 | do..... | do..... | do..... | -- | -- | Apr. 1938 | 23.6 | 275 | 150 | 60.1 | 2.93 | 3,835 |
| 51-15 | Bridgeport..... | West Fork of Trinity River..... | Bridgeport, Tex..... | 1,051 | 1,033 | -- 1932 | -- | 292,000 | 278 | -- | -- | -- |
| 51-15 | do..... | do..... | do..... | -- | -- | Feb. 1934 | 10.8 | 283,240 | 269 | -- | .785 | -- |
| 51-16a | Eagle Mountain..... | do..... | Fort Worth, Tex..... | 1,875 | 4/809 | Mar. 1939 | 5 | 211,000 | 113 | -- | 1.44 | -- |
| 51-16a | do..... | do..... | do..... | -- | -- | Mar. 1939 | 5 | 205,175 | 109 | -- | 1.44 | -- |
| 51-16a | do..... | do..... | do..... | -- | -- | Nov. 1952 | 13 | 182,000 | 97 | -- | 2.20 | -- |
| 51-17 | Lake Erie..... | do..... | do..... | -- | -- | Nov. 1899 | -- | 270 | 257 | -- | -- | -- |
| 51-17 | do..... | do..... | do..... | 1.05 | 1.01 | -- 1899 | -- | 204 | 194 | -- | 1.63 | -- |
| 51-18 | Mabank City Lake..... | do..... | do..... | -- | -- | Apr. 1939 | 40 | 295 | 819 | -- | -- | -- |
| 51-18 | do..... | do..... | do..... | .36 | .33 | -- 1926 | -- | 271 | 753 | -- | 5.51 | -- |
| 51-19 | Wolf Creek..... | do..... | do..... | -- | -- | Apr. 1939 | 13 | 222 | 87 | -- | -- | -- |
| 51-19 | do..... | do..... | do..... | 2.55 | 2.50 | -- 1919 | -- | 199 | 78 | -- | .46 | -- |
| 51-20 | do..... | do..... | do..... | -- | -- | Apr. 1939 | 20 | 856 | 269 | -- | -- | -- |
| 51-20 | Elkins Lake..... | East Sandy Creek..... | Huntsville, Tex..... | 3.18 | 3.05 | -- 1930 | -- | 812 | 255 | -- | .72 | -- |
| 51-21 | Murphy Lake..... | do..... | do..... | -- | -- | July 1950 | 20 | 397 | 97.1 | -- | -- | -- |
| 51-21 | do..... | do..... | do..... | 4.09 | 3.98 | Oct. 1922 | -- | 138 | 33.7 | *60 | 3.94 | 5,150 |
| 51-22 | Loring Lake..... | do..... | do..... | -- | -- | Apr. 1939 | 16.5 | 663 | 631 | -- | -- | -- |
| 51-22 | do..... | do..... | do..... | 1.05 | .95 | Sept. 1928 | -- | 623 | 593 | 85.08 | 1.62 | 3,002 |
| 51-22 | do..... | do..... | do..... | -- | -- | Sept. 1934 | 26 | 630 | 98 | -- | -- | -- |
| 51-23 | Kerens City Lake..... | Cow Creek..... | Kerens, Tex..... | 6.42 | 6.28 | Sept. 1935 | -- | 554 | 87 | 54.49 | .64 | 759 |
| 51-23 | do..... | do..... | do..... | -- | -- | July 1954 | 18.8 | 38 | 135.71 | -- | -- | -- |
| 51-24 | Variety Club Lake..... | Trib. of Trinity River..... | Bedford, Tex..... | .29 | .29 | July 1942 | -- | 33 | 117.86 | -- | 2.21 | -- |
| 51-24 | do..... | do..... | do..... | -- | -- | May 1950 | 7.8 | -- | -- | -- | -- | -- |

LOWER BRAZOS, LOWER COLORADO, GUADALUPE, SAN ANTONIO, AND NUECES RIVER BASINS

| | | | | | | | | | | | | | |
|------|----------------------------|---------------------------|-----------------------|----------|--------|-----------|------|---------|------|------|-------|-------|-----|
| 52-1 | Lake Corpus Christi..... | Nueces River..... | Mathis, Tex..... | 16,800 | 16,791 | July 1934 | -- | 54,426 | 3.24 | -- | -- | 0.083 | 63 |
| | do..... | do..... | do..... | -- | -- | Mar. 1942 | 7.6 | 43,801 | 2.61 | 34.9 | -- | 0.083 | 63 |
| 52-2 | Medina Lake..... | Medina River..... | San Antonio, Tex..... | 587 | 578 | Mar. 1948 | 6.0 | 39,387 | 2.34 | 35.6 | -- | 0.044 | 36 |
| | do..... | do..... | do..... | -- | -- | Mar. 1937 | 23.9 | 274,065 | 467 | -- | -- | -- | -- |
| 52-3 | Buchanan..... | Colorado River..... | do..... | 5/19,350 | 19,313 | Jan. 1937 | 11.3 | 267,630 | 456 | 61.1 | 465 | 619 | 619 |
| | do..... | do..... | do..... | -- | -- | May 1948 | -- | 285,075 | 482 | 75.0 | 391 | -- | -- |
| 52-4 | Moss Ranch Stock Pond..... | S. Bull Creek..... | Llano, Tex..... | .07 | .07 | June 1937 | -- | 970,010 | 30 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | 3.7 | 954,859 | 49 | -- | 21 | -- | -- |
| 52-5 | do..... | do..... | do..... | .20 | .19 | Feb. 1941 | 32 | 4.5 | 64 | -- | 0.07 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | 38 | 9.3 | 46 | -- | -- | -- | -- |
| 52-6 | Helms Tank..... | Trib. of Sandy Creek..... | do..... | .15 | .14 | Feb. 1941 | -- | 9.1 | 45 | -- | 0.021 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | 25 | 11.6 | 77 | -- | 12 | -- | -- |

BRAZOS RIVER BASIN (SOUTH BEND TO WASHINGTON) MIDDLE, AND COLORADO RIVER BASINS

| | | | | | | | | | | | | | |
|-------|-------------------------------|-----------------------------------|-----------------------|----------|--------|------------|-------|---------|-------|-------|------|-------|-------|
| 53-1 | Lake Seaborough..... | Trib. of Jim Ned Creek..... | Coleman, Tex..... | 10.8 | 10.6 | May 1923 | -- | 2,153 | 199 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1940 | 17 | 2,007 | 186 | 51.41 | 0.81 | 907 | 907 |
| 53-2 | Santa Anna Lake..... | Mud Creek..... | Santa Anna, Tex..... | 1.17 | 1.05 | May 1923 | -- | 766 | 655 | -- | -- | -- | -- |
| 53-3 | Lake Eanes..... | Mercer Creek..... | Comanche, Tex..... | 13.76 | 13.57 | Apr. 1940 | 17 | 743 | 637 | 45.2 | 1.18 | 1,162 | 1,162 |
| | do..... | do..... | do..... | -- | -- | May 1926 | -- | 1,335 | 95.4 | -- | -- | -- | -- |
| 53-4 | Lake Merritt..... | Brown Creek..... | Goldthwaite, Tex..... | 11.65 | 11.50 | Sept. 1946 | 20.3 | 1,221 | 88.7 | -- | 334 | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1917 | -- | 962 | 83 | -- | -- | -- | -- |
| 53-5 | Hubbard City Lake No. 3..... | Trib. of E. Cottonwood Creek..... | Hubbard, Tex..... | .16 | .14 | May 1940 | 23 | 855 | 73 | 43 | .40 | 375 | 375 |
| | do..... | do..... | do..... | -- | -- | May 1940 | -- | 6/104.5 | 653 | -- | -- | -- | -- |
| 53-6 | Hubbard City Lake No. 4..... | E. Cottonwood Creek..... | do..... | 1.40 | 1.35 | May 1949 | 36 | 90.2 | 564 | -- | 2.86 | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1949 | 32 | 255.4 | 182 | -- | 1.45 | -- | -- |
| 53-7 | Rogers Lake..... | Trib. of Little River..... | Rogers, Tex..... | .55 | .51 | May 1949 | -- | 164 | 298 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1922 | 12 | 126.5 | 230 | -- | 5.68 | -- | -- |
| 53-8 | Hubbard City Lake No. 1..... | Trib. of E. Cottonwood Cr..... | Hubbard, Tex..... | .5 | .5 | Sept. 1934 | -- | 7/110 | 220 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1949 | 51 | 84 | 168 | -- | 1.0 | -- | -- |
| 53-9 | Hubbard City Lake No. 2..... | do..... | do..... | .03 | .03 | May 1949 | 37 | 7/36.3 | 1,210 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1949 | -- | 33.0 | 1,100 | -- | 3.0 | -- | -- |
| 53-10 | Hubbard City Lake No. 5..... | East Cottonwood Creek..... | do..... | .11 | .10 | May 1949 | 24 | 44.8 | 407 | -- | 3.0 | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1949 | -- | 37.8 | 344 | -- | -- | -- | -- |
| 53-11 | Lake Lawn..... | Redbank Creek..... | Lawn, Tex..... | 13.0 | 12.8 | May 1949 | 30 | 530 | 41 | -- | .46 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1941 | 29 | 759 | 160 | -- | .20 | -- | -- |
| 53-12 | Lometa..... | Salt & Emory Creek..... | Lometa, Tex..... | 4.74 | 4.60 | Feb. 1941 | 29 | 732 | 154 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | -- | 723 | 219 | -- | .69 | -- | -- |
| 53-13 | Meridian Lake..... | Bee Creek..... | Meridian, Tex..... | 3.30 | 3.20 | Apr. 1948 | 14 | 692 | 210 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1948 | -- | 83 | 202 | -- | -- | -- | -- |
| 53-14 | Miller Lake..... | Trib. of Horse Creek..... | San Saba, Tex..... | .41 | .38 | Sept. 1913 | 27.5 | 75 | 183 | -- | .71 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1941 | -- | 75.1 | 134 | -- | -- | -- | -- |
| 53-15 | Odell Lake..... | Unnamed Trib..... | Hubbard, Tex..... | .56 | .55 | July 1925 | 24 | 52.6 | 94 | -- | 1.71 | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1949 | -- | 729,985 | 51.8 | -- | -- | -- | -- |
| 53-16 | Possum Kingdom Lake..... | Brazos River..... | Graford, Tex..... | 8/14,098 | 12,955 | May 1941 | 7.75 | 672,420 | 47.7 | -- | .57 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1949 | -- | 153 | 9.3 | -- | -- | -- | -- |
| 53-17 | Rock Crusher..... | Bachelor Creek..... | Coleman, Tex..... | 16.5 | 16.48 | Feb. 1941 | 31 | 80 | 4.8 | -- | .14 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | -- | 153 | 170 | -- | -- | -- | -- |
| 53-18 | Old Santa Anna City Lake..... | Mukewater Creek..... | Santa Anna, Tex..... | .9 | .87 | Jan. 1940 | 30.5 | 118 | 131 | -- | 1.31 | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1940 | -- | 289 | 396 | -- | -- | -- | -- |
| 53-19 | Old Coleman City Lake..... | Home Creek..... | Coleman, Tex..... | .73 | .69 | Nov. 1906 | 33.6 | 273 | 374 | -- | .67 | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1940 | -- | 610 | 51 | -- | -- | -- | -- |
| 53-20 | Hamilton City Lake..... | Two Mile Creek..... | Hamilton, Tex..... | 12.0 | 11.9 | June 1923 | 610 | 560 | 47 | -- | .24 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1941 | 17.75 | 1,637 | 7.3 | -- | -- | -- | -- |
| 53-21 | Lake Leon..... | Leon River..... | Eastland, Tex..... | 225 | 224.7 | June 1920 | -- | 1,275 | 5.7 | -- | .08 | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1941 | 20.75 | 1,275 | 5.7 | -- | -- | -- | -- |

1/ Excludes area above two lakes in watershed which contributes occasional flow to Lake.

2/ Lake Clark was built in 1940 downstream from "Ennis New Lake" or "Club Lake" which was built in 1895.

3/ Based upon combined capacities of all lakes in system.

4/ Excludes area above Bridgeport Res.

5/ Drainage area is 31,250 sq. mi. of which 11,900 sq. mi. are non-contributing.

6/ Dam was raised in 1925 and 1949. Capacities based on 1949 level.

7/ Dam was raised in 1925. Capacity based on 1925 level.

8/ Includes 1,111 sq. mi. of partially contributing drainage above lakes in watershed; excludes 8,950 sq. mi. of non-contributing drainage at head of watershed.

* Estimated or assumed.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|-------------------------------------|-----------------------------------|-------------------------|-------------------------------|-------|----------------|---------------------------------|-----------------------------|---|--|--|-------|
| | | | | | | | | | | | ACRE-FT | TONS |
| | | | | TOTAL | NET | | | | | | | |
| BRAZOS RIVER BASIN (SOUTH BEND TO WASHINGTON) MIDDLE, AND COLORADO RIVER BASINS (Continued) | | | | | | | | | | | | |
| 53-22 | Lake Mineral Wells..... | Rock Creek..... | Mineral Wells, Tex..... | 74.4 | 73.4 | -- 1922 | -- | 10,741 | 144 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1941 | 19.5 | 9,032 | 121 | -- | 1.19 | -- |
| 53-23 | Buffalo Tank (Knox Tank)..... | Unnamed Trib. of Pecan Bayou..... | Coleman, Tex..... | 1.73 | 1.71 | -- 1900 | -- | 33 | 19 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | 41 | 29 | 17 | -- | .058 | -- |
| 53-24 | R. G. Hollingsworth Stock Pond..... | do..... | do..... | 2.60 | 2.58 | June 1937 | -- | 20 | 7.7 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | 3.7 | 14 | 5.4 | -- | .66 | -- |
| 53-25 | J. S. Wall Stock Pond..... | Trib. of Brady Creek..... | Brady, Tex..... | .35 | .35 | -- 1927 | -- | 13 | 37 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1941 | 14 | 12.2 | 35 | -- | .16 | -- |
| 53-26 | White Tank..... | Unnamed Trib. of Pecan Bayou..... | Brownwood, Tex..... | .80 | .80 | May 1936 | -- | 4.5 | 5.6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1941 | 4.8 | 3.6 | 4.5 | -- | .24 | -- |
| 53-27 | Zimmerlee Stock Pond (north)... | Unnamed Trib. of Jim Ned Cr..... | Lawn, Tex..... | .13 | .13 | -- 1916 | -- | 1.12 | 8.6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | 25 | .80 | 6.2 | -- | .10 | -- |
| 53-28 | Stith Lake..... | Redbank Creek..... | do..... | 1.04 | 1.01 | Aug. 1926 | -- | 102 | 98 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1941 | 14.6 | 93 | 89 | -- | .63 | -- |
| 53-29 | Philpeco Lake..... | Paint Creek..... | Pioneer, Tex..... | 9.04 | 9.00 | Apr. 1925 | -- | 183 | 20 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1941 | 15.9 | 173 | 19 | -- | .07 | -- |
| 53-30 | Lake Brownwood..... | Pecan Bayou (Colo. R)..... | Brownwood, Tex..... | 1,544 | 1,532 | July 1932 | -- | 148,300 | 96 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1934 | 2.1 | 147,865 | 95 | *90 | .135 | 265 |
| | do..... | do..... | do..... | -- | -- | Feb. 1940 | 5.5 | 143,880 | 93 | *58 | .473 | 566 |
| | do..... | do..... | do..... | -- | -- | Aug. 1948 | 8.5 | 136,600 | 88 | *55 | .559 | 645 |
| 53-31 | Lake Waco..... | Bosque River..... | Waco, Tex..... | 1,666 | 1,662 | Apr. 1930 | -- | 39,378 | 23.6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1935 | 4.9 | 33,717 | 20.2 | *58.5 | .695 | 886 |
| | do..... | do..... | do..... | -- | -- | Feb. 1936 | 1.0 | 31,588 | 19.0 | *58.5 | 1.28 | 1,631 |
| | do..... | do..... | do..... | -- | -- | Dec. 1947 | 11.8 | 22,026 | 13.2 | *58.5 | .487 | 621 |
| 53-32 | Lake Eddleman..... | Flint Creek..... | Graham, Tex..... | 42 | 41.4 | Feb. 1929 | -- | 6,583 | 157 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1954 | 25.25 | 5,917 | 141 | 49.2 | .64 | 687 |
| UPPER BRAZOS AND UPPER COLORADO RIVER BASIN | | | | | | | | | | | | |
| 54-1 | Lake Abilene..... | Elm Creek..... | Abilene, Tex..... | 98.5 | 97.5 | Aug. 1921 | -- | 10,325 | 105 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 27 | 9,786 | 99 | *60 | 0.21 | 274 |
| 54-2a | Lake Nasworthy..... | South Concho River..... | San Angelo, Tex..... | 3,294 | 3,119 | Oct. 1930 | -- | 11,485 | 3.49 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1938 | 8.2 | 10,294 | 3.13 | 67.5 | .04 | 58.37 |
| 54-3 | Lake Sweetwater..... | Bitter Creek..... | Sweetwater, Tex..... | 110 | 108.8 | May 1953 | 14.5 | 1,12,628 | 3.83 | 67.5 | .03 | 44.10 |
| | do..... | do..... | do..... | -- | -- | Feb. 1930 | -- | 13,810 | 126 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1941 | 11.8 | 13,287 | 121 | -- | .41 | -- |
| 54-4 | Lake Kirby..... | Cedar Creek..... | Abilene, Tex..... | 44 | 42.8 | Sept. 1928 | -- | 8,133 | 185 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1941 | 13.2 | 7,618 | 173 | -- | .91 | -- |
| 54-5 | Lake Throckmorton..... | South Elm River..... | Throckmorton, Tex..... | 11.54 | 11.32 | Sept. 1918 | -- | 2,1,947 | 169 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | June 1954 | 35.7 | 1,829 | 158 | 31.55 | .29 | 199 |
| 54-6 | Lake Fort Phantom Hill..... | Elm Fork, Brazos River..... | Abilene, Tex..... | 478 | 268 | Oct. 19383/ | -- | 76,966 | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1953 | 14.8 | 74,312 | -- | 35.99 | .38 | 298 |

RIO GRANDE BASIN (BELOW EAGLE PASS)

RIO GRANDE BASIN (FORT QUITMAN TO EAGLE PASS) AND LOWER PECOS RIVER BASIN

| | | | | | | | | | | |
|------|----------------------------|------------------------|------|--------|-----------|----|-------|-------|----|------|
| 56-1 | Cottonwood Detention..... | San Felipe Arroyo..... | 2.34 | 2.19 | July 1937 | -- | 500 | 214 | -- | -- |
| | do..... | Fabens, Tex..... | -- | -- | July 1937 | 17 | 378 | 162 | -- | 3.07 |
| 56-2 | Rattlesnake Detention..... | do..... | 5.15 | 4/2.81 | July 1937 | -- | 224.4 | 43.57 | -- | -- |
| | do..... | do..... | -- | -- | July 1937 | 17 | 175.7 | 34.12 | -- | 1.02 |
| 56-3 | Roberts Detention..... | do..... | 2.34 | 2.31 | July 1937 | -- | 145.3 | 62 | -- | -- |
| | do..... | do..... | -- | -- | July 1937 | 17 | 104.8 | 45 | -- | 1.03 |

RIO GRANDE BASIN (ESPANOLA TO FORT QUITMAN)

| | | | | | | | | | | |
|------|---------------------|---------------------------|--------|--------|-----------|-----|-----------|-----|-------|------|
| 57-1 | Elephant Butte..... | Rio Grande..... | 25.923 | 25.866 | Jan. 1915 | -- | 2,634,800 | 102 | -- | -- |
| | do..... | Hot Springs, New Mex..... | -- | -- | Dec. 1916 | 1.9 | 2,584,865 | 100 | -- | 1.02 |
| | do..... | do..... | -- | -- | Aug. 1920 | 3.7 | 2,498,850 | 96 | -- | .889 |
| | do..... | do..... | -- | -- | Aug. 1925 | 5.0 | 2,389,380 | 92 | -- | .846 |
| | do..... | do..... | -- | -- | Apr. 1935 | 9.7 | 2,270,300 | 88 | -- | .475 |
| | do..... | do..... | -- | -- | Oct. 1940 | 5.5 | 2,219,000 | 86 | *60 | .361 |
| | do..... | do..... | -- | -- | Apr. 1947 | 6.5 | 2,197,600 | 85 | *65.9 | .127 |

UPPER PECOS RIVER BASIN

| | | | | | | | | | | |
|------|------------------------------------|------------------------------|--------|--------|------------|------|---------|-------|-------|-------|
| 58-1 | Bonito..... | Bonito Cr., Kraut Gulch..... | 40.0 | 39.9 | June 1931 | -- | 1,180 | 29.5 | -- | -- |
| | do..... | Capitan, New Mex..... | -- | -- | Sept. 1940 | 9 | 1,150 | 28.8 | -- | 0.083 |
| 58-2 | Alamogordo (Carlsbad Project)..... | Pecos River..... | 4.393 | 3.749 | -- 1936 | -- | 156,750 | 41.81 | -- | -- |
| | do..... | do..... | -- | -- | Sept. 1940 | 3.2 | 146,071 | 31.49 | -- | .876 |
| | do..... | do..... | -- | -- | Oct. 1943 | 3.1 | 130,280 | 34.75 | -- | -- |
| | do..... | do..... | -- | -- | Apr. 1944 | .5 | 132,171 | 35.26 | *73.5 | 1.03 |
| 58-3 | Lake Avalon..... | Carlsbad, New Mex..... | 18.070 | 1.080 | -- 1905 | -- | 7,888 | -- | -- | 1.649 |
| | do..... | do..... | -- | -- | Apr. 1941 | 36 | 6,633 | -- | *85 | .032 |
| 58-4 | Lake McMillan..... | do..... | 16.985 | 12.600 | Jan. 1894 | -- | 581,000 | 5.35 | -- | -- |
| | do..... | do..... | -- | -- | June 1904 | 10.4 | 74,000 | 4.37 | -- | .122 |
| | do..... | do..... | -- | -- | Nov. 1910 | 6.4 | 62,000 | 3.66 | -- | .148 |
| | do..... | do..... | -- | -- | May 1915 | 4.6 | 45,125 | 2.66 | -- | .295 |
| | do..... | do..... | -- | -- | Dec. 1932 | 17.6 | 40,000 | 2.36 | -- | .026 |
| | do..... | do..... | -- | -- | Jan. 1940 | 7.1 | 38,665 | 2.28 | 75 | .015 |

COLORADO RIVER BASIN (BELOW HOOVER DAM)

Williams and Lower Gila River Basins

GILA RIVER BASIN

| | | | | | | | | | | |
|------|------------------------------------|------------------------------|--------|--------|------------|------|-----------|--------|-----|-------|
| 60-1 | Lake Pleasant..... | Aqua Fria River..... | 1.450 | 1.444 | Apr. 1928 | -- | 184,500 | 127 | -- | -- |
| | do..... | do..... | -- | -- | Feb. 1941 | 12.9 | 176,456 | 122 | -- | 0.432 |
| 60-2 | San Carlos (Coolidge Dam)..... | Gila River..... | 12.900 | 11.900 | Nov. 1928 | -- | 1,267,447 | 98.25 | -- | -- |
| | do..... | do..... | -- | -- | Feb. 1935 | 6.3 | 1,233,335 | 95.61 | *70 | .456 |
| | do..... | do..... | -- | -- | Jan. 1937 | 1.9 | 1,231,305 | 95.45 | -- | .089 |
| | do..... | do..... | -- | -- | Jan. 1947 | 10.0 | 1,209,953 | 93.79 | -- | .179 |
| 60-3 | Stock Tank No. 16 (Bryce Dam)..... | Butler, Wash..... | .69 | .69 | Mar. 1936 | -- | 11.43 | 16.6 | -- | -- |
| | do..... | do..... | -- | -- | -- 1941 | 5.2 | 5.13 | 7.43 | -- | 1.75 |
| 60-4 | Roosevelt-Salt River Project..... | Salt R. and Tonto Creek..... | 5.760 | 5.760 | Dec. 1914 | 5.7 | 1,495,200 | 259.63 | *70 | .819 |
| | do..... | do..... | -- | -- | Oct. 1916 | 1.8 | 1,460,150 | 253.50 | *70 | 3.350 |
| | do..... | do..... | -- | -- | Sept. 1925 | 8.9 | 1,425,813 | 247.54 | *70 | .670 |
| | do..... | do..... | -- | -- | Jan. 1935 | 9.3 | 1,418,013 | 246.18 | *70 | .145 |
| | do..... | do..... | -- | -- | Jan. 1939 | 4.0 | 1,398,430 | 242.78 | *70 | .850 |
| | do..... | do..... | -- | -- | Jan. 1946 | 7.0 | 1,381,580 | 239.86 | *70 | .418 |

1/Spillway raised 2.3 feet in Sept. 1948.

2/Dam was raised 13 feet in 1940; capacity at 1940 spillway elevation.

3/Date storage began has not been verified.

4/Includes Hucco Watershed but does not include Roberts Watershed.

5/Based upon present spillway crest.

*Estimated or assumed.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER- SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|-------------------------|-----------------------|------------------------|----------------------------------|-----------|-------------------------|--|--------------------------------------|---|--|---|------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| LITTLE COLORADO AND SAN JUAN RIVER BASINS | | | | | | | | | | | | |
| COLORADO RIVER BASIN (HALLS CROSSING TO HOOVER DAM) | | | | | | | | | | | | |
| 61- | | | | | | | | | | | | |
| 62-1 | Lake Mead..... | Colorado River..... | Boulder City, Nev..... | 167,800 | 1/167,600 | Feb. 1935 | -- | 31,250,000 | 186 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 ² | 13.7 | 29,827,000 | 178 | 65 | 0.626 | 877 |
| COLORADO RIVER BASIN (ABOVE HALLS CROSSING) | | | | | | | | | | | | |
| Gunnison, Dolores and Fremont River Basins | | | | | | | | | | | | |
| 63- | | | | | | | | | | | | |
| 64- | | | | | | | | | | | | |
| GREEN RIVER BASIN | | | | | | | | | | | | |
| 65- | | | | | | | | | | | | |
| GREAT SALT LAKE BASIN | | | | | | | | | | | | |
| SEVIER RIVER BASIN | | | | | | | | | | | | |
| 66-1 | Booby Hole..... | Booby Hole Creek..... | Kodsharem, Utah..... | 5.0 | 4.9 | Sept. 1865 | -- | 607 | 121 | -- | -- | -- |
| 66-2 | do..... | do..... | do..... | -- | -- | Oct. 1940 | 75 | 598 | 120 | -- | 0.024 | -- |
| 66-3 | Indian Creek No. 1..... | Indian Creek..... | Beaver, Utah..... | 12.0 | 11.95 | -- 1898 | -- | 318 | 26.5 | -- | -- | -- |
| 66-4 | Rocky Ford..... | Beaver River..... | do..... | 510 | 508 | Nov. 1940 | 42 | 299 | 24.9 | -- | .038 | -- |
| 66-5 | do..... | do..... | do..... | -- | -- | Feb. 1915 | -- | 23,260 | 45.6 | -- | -- | -- |
| 66-6 | do..... | Sevier River..... | Sigurd, Utah..... | 900 | 900 | Nov. 1940 | 25.8 | 21,509 | 42.2 | -- | .134 | -- |
| 66-7 | do..... | do..... | do..... | -- | -- | Nov. 1890 | -- | 2,115 | 2.35 | -- | -- | -- |
| 66-8 | Skutumpah..... | Skutumpah Creek..... | Salina, Utah..... | 10.0 | 9.92 | Nov. 1940 | 50 | 790 | .88 | -- | .029 | -- |
| 66-9 | do..... | do..... | do..... | -- | -- | Nov. 1893 | -- | 667 | 66.7 | -- | -- | -- |
| 66-10 | Enterprise..... | Pine Creek..... | Enterprise, Utah..... | 25.0 | 23.4 | Nov. 1940 | 47 | 430 | 43.0 | -- | .508 | -- |
| 66-11 | do..... | do..... | do..... | -- | -- | -- 1909 | -- | 9,000 | 360 | -- | -- | -- |
| 66-12 | Yankee Meadows..... | Pole Creek..... | Parowan, Utah..... | 7.0 | 6.9 | Nov. 1940 | 31 | 8,550 | 342 | -- | .620 | -- |
| 66-13 | do..... | do..... | do..... | -- | -- | Dec. 1926 | -- | 2,500 | 357 | -- | -- | -- |
| 66-14 | Piute..... | Sevier River..... | Marysville, Utah..... | 2,440 | 2,436 | Nov. 1940 | 14 | 2,200 | 314 | -- | .310 | -- |
| 66-15 | do..... | do..... | do..... | -- | -- | -- 1910 ³ | -- | 81,200 | 33.3 | -- | -- | -- |
| 66-16 | Sevier Bridge..... | do..... | Sevier, Utah..... | 5,120 | 1,089 | -- 1938 | 28 | 74,010 | 30.3 | -- | .106 | -- |
| 66-17 | do..... | do..... | do..... | -- | -- | -- 1908 | -- | 250,000 | 48.8 | -- | -- | -- |
| 66-18 | do..... | do..... | do..... | -- | -- | -- 1932 | 24 | 234,462 | 45.8 | -- | .594 | -- |

GREAT BASIN (NORTHWESTERN PART IN CALIF., NEV., AND OREGON)

GREAT BASIN
Humboldt, Carson and Truckee River Basins

| | | | | | | | | | | |
|------|-------------------|-------|-------|------------|------|----|--------|-----|----|------|
| 68-1 | Willow Creek..... | 112 | 111 | -- | 1924 | -- | 15,300 | 137 | -- | -- |
| | do..... | -- | -- | Sept. 1939 | 15 | -- | 15,050 | 134 | -- | 0.15 |
| 69-1 | Weber..... | 2,800 | 2,440 | Sept. 1935 | -- | -- | 13,200 | 4.7 | -- | -- |
| | do..... | -- | -- | Sept. 1939 | 4 | -- | 12,980 | 4.6 | -- | 0.02 |

GREAT BASIN
Owens, Walker, and Mono Lake Drainages

SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE

| | | | | | | | | | | |
|--------|----------------------------------|--|-------|-------|-----------|------|---------|-------|-----|------|
| 70-1 | Fullerton Flood-control Basin... | | 3.05 | 2.95 | Oct. 1941 | -- | 753.5 | 247 | -- | -- |
| | do..... | | -- | -- | Nov. 1944 | 3.1 | 743.0 | 244 | -- | 1.15 |
| 70-2 | Lake Hodges..... | | 303 | 301 | Jan. 1919 | -- | 36,601 | 121 | -- | -- |
| | do..... | | -- | -- | July 1935 | 16.5 | 34,779 | 115 | *65 | .365 |
| | do..... | | -- | -- | July 1948 | 13.0 | 33,482 | 111 | -- | .332 |
| 70-3 | Railroad Canyon..... | | 718 | 651 | May 1928 | -- | 12,218 | 17.0 | -- | -- |
| | do..... | | -- | -- | June 1939 | 11 | 12,034 | 16.8 | *60 | .03 |
| 70-4 | Lake Sherwood..... | | 16 | 15.7 | -- | -- | 2,870 | 179 | -- | -- |
| | do..... | | -- | -- | Mar. 1936 | 31 | 2,792 | 175 | *50 | .16 |
| | do..... | | -- | -- | Mar. 1938 | 2 | 2,772 | 173 | -- | .84 |
| 70-5 | Stone Canyon..... | | 1.38 | 1.16 | May 1921 | -- | 7,998 | 5,881 | -- | -- |
| | do..... | | -- | -- | June 1939 | 18.1 | 7,949 | 5,845 | *60 | 2.34 |
| 70-6 | Bonita Canyon..... | | 4.00 | 4.00 | Jan. 1938 | -- | 326 | 81.5 | -- | -- |
| | do..... | | -- | -- | June 1939 | 2 | 305 | 76.3 | *60 | 2.63 |
| 70-7 | Bouquet Canyon..... | | 12.6 | 11.6 | Mar. 1934 | -- | 38,500 | 2,897 | -- | -- |
| | do..... | | -- | -- | June 1939 | 5 | 38,436 | 2,892 | *40 | 1.10 |
| 70-8 | Chatsworth..... | | 5.40 | 4.45 | Apr. 1918 | -- | 10,125 | 2,275 | -- | -- |
| | do..... | | -- | -- | June 1939 | 21 | 10,077 | 2,264 | *40 | .51 |
| 70-9 | Lake Hemet..... | | 66.0 | 65.3 | -- | -- | 14,000 | 212 | -- | -- |
| | do..... | | -- | -- | June 1940 | 48 | 11,702 | 177 | *75 | .73 |
| 70-10 | Laguna..... | | .75 | .72 | Feb. 1938 | -- | 274 | 365 | -- | -- |
| | do..... | | -- | -- | June 1939 | 2 | 266 | 355 | *40 | 5.56 |
| 70-11 | Encino..... | | 1.42 | 1.30 | May 1921 | -- | 3,229 | 2,274 | -- | -- |
| | do..... | | -- | -- | June 1939 | 18 | 3,210 | 2,261 | *40 | .815 |
| 70-12 | Fairmont..... | | 2.64 | 2.37 | Oct. 1913 | -- | 7,487 | 2,836 | -- | -- |
| | do..... | | -- | -- | June 1939 | 26 | 7,393 | 2,800 | -- | 1.53 |
| 70-13a | Little Rock..... | | 68.0 | 67.84 | Apr. 1924 | -- | 4,217 | 62.0 | -- | -- |
| | do..... | | -- | -- | June 1938 | 11.0 | 4,139 | 60.9 | *85 | .10 |
| | do..... | | -- | -- | Oct. 1943 | 3.0 | 3,648 | 53.6 | -- | 2.41 |
| | do..... | | -- | -- | Dec. 1946 | 3.0 | 3,404 | 50.1 | -- | .72 |
| | do..... | | -- | -- | Oct. 1951 | 4.8 | 3,352 | 49.3 | -- | .25 |
| | do..... | | -- | -- | Aug. 1953 | 2.2 | 3,297 | 48.4 | -- | .49 |
| 70-14 | Live Oak..... | | 2.30 | 2.30 | Nov. 1922 | -- | 3,313 | 48.7 | -- | 4/ |
| | do..... | | -- | -- | Mar. 1936 | 13.5 | 250 | 109 | -- | .26 |
| | do..... | | -- | -- | May 1938 | 2.4 | 242 | 105 | *85 | .26 |
| 70-15 | Morena..... | | 112.0 | 109.4 | Mar. 1910 | -- | 229 | 99.6 | -- | -- |
| | do..... | | -- | -- | Dec. 1935 | 25.7 | 66,767 | 596 | -- | -- |
| | do..... | | -- | -- | July 1948 | 12.6 | 60,699 | 542 | *60 | 2.16 |
| 70-16 | Prado..... | | 2,264 | 2,250 | -- | -- | 58,933 | 526 | -- | 1.28 |
| | do..... | | -- | -- | May 1941 | 1 | 225,000 | 98.5 | -- | -- |
| 70-17 | Mockingbird Canyon..... | | 11.6 | 11.5 | -- | -- | 222,481 | 86 | *75 | .231 |
| | do..... | | -- | -- | Mar. 1940 | 26 | 1,000 | 83 | *60 | .130 |

1/ Not adjusted for numerous small reservoirs.

2/ Period of survey was from March 1949-March 1949.

3/ Original survey made in 1908.

4/ Not computed because of scour during period.

5/ Equalizing reservoir on the Gage Canal system obtaining water from the Santa Ana River.

* Estimated or assumed.

SUMMARY OF

RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|-----------------------------|-------------------------|--------------------------|-------------------------------|--------|----------------|---------------------------------|-----------------------------|---|--|--|------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (Continued) | | | | | | | | | | | | |
| 70-18 | Hansen F. C. Basin..... | Tujunga Creek..... | San Fernando, Calif..... | 147 | 1/146 | Sept. 1940 | -- | 35,800 | 244 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | July 1941 | 0.8 | 35,200 | 239 | -- | 4.1 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1943 | 2.3 | 34,100 | 232 | -- | 3.8 | |
| 70-19 | Brea F. C. Basin..... | Brea Creek..... | Fullerton, Calif..... | 23.4 | 23.1 | Mar. 1942 | -- | 33,500 | 228 | -- | 2.1 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1949 | 7.5 | 4,168 | 178 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Oct. 1935 | -- | 12,881 | 175 | -- | .41 | |
| 70-20 | San Gabriel Dam No. 2..... | San Gabriel River..... | Azuza, Calif..... | 39.2 | 39.0 | Jan. 1936 | -- | 12,298 | 329 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Apr. 1938 | 2.2 | 10,786 | 314 | -- | 18.7 | |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 1.6 | 2/11,029 | 281 | -- | 17.6 | |
| | do..... | do..... | do..... | -- | -- | Nov. 1940 | 1.0 | 2/11,102 | 283 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Nov. 1941 | 1.0 | 10,915 | 278 | -- | 4.79 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1943 | 1.9 | 10,501 | 268 | -- | 5.59 | |
| | do..... | do..... | do..... | -- | -- | Jan. 1945 | 1.2 | 10,536 | 269 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1.7 | 2/10,597 | 270 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1.0 | 2/10,634 | 271 | -- | -- | |
| 70-21a | San Gabriel Dam No. 1..... | do..... | do..... | 203 | 3/242 | Oct. 1938 | .9 | 47,191 | -- | -- | 28.3 | |
| | do..... | do..... | do..... | -- | -- | Nov. 1940 | 2.1 | 46,335 | -- | -- | 1.68 | |
| | do..... | do..... | do..... | -- | -- | Sept. 1941 | .8 | 45,862 | -- | -- | 2.44 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1942 | 1.0 | 45,759 | -- | -- | .43 | |
| | do..... | do..... | do..... | -- | -- | Sept. 1943 | 1.0 | 44,032 | -- | -- | 8.13 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1944 | 1.1 | 44,388 | -- | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Nov. 1945 | 1.0 | 44,342 | -- | -- | .19 | |
| | do..... | do..... | do..... | -- | -- | Nov. 1948 | 3.0 | 43,825 | -- | -- | .71 | |
| | do..... | do..... | do..... | -- | -- | Nov. 1951 | 3.0 | 43,928 | -- | -- | .13 | |
| 70-22 | Morris Dam..... | do..... | do..... | 211.3 | 210.7 | May 1954 | 1.3 | 44,013 | -- | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Jan. 1934 | -- | 39,316 | -- | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Jan. 1936 | 2.1 | 38,692 | -- | -- | 1.41 | |
| | do..... | do..... | do..... | -- | -- | Feb. 1938 | 2.1 | 37,175 | -- | -- | 3.43 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1938 | .7 | 36,655 | -- | -- | 3.53 | |
| | do..... | do..... | do..... | -- | -- | Dec. 1949 | 11.2 | 35,171 | -- | -- | .63 | |
| 70-23 | San Dimas Basin..... | San Dimas Wash..... | San Dimas, Calif..... | 16.2 | 16.1 | Dec. 1919 | -- | 1,496 | 92 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Dec. 1935 | 13.2 | 1,373 | 85 | -- | .58 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1938 | 2.9 | 1,155 | 71 | -- | 4.67 | |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 1.0 | 2/1,189 | 74 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Dec. 1941 | 2.1 | 1,145 | 71 | -- | 1.30 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1943 | 1.9 | 1,071 | 66 | -- | 2.42 | |
| 70-24a | Puddingstone Diversion..... | do..... | do..... | 18.8 | 2.6 | Nov. 1944 | 1.0 | 1,042 | 64 | -- | 1.80 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1929 | -- | 148 | 79 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Jan. 1936 | 6.2 | 121 | 64 | -- | 1.67 | |
| | do..... | do..... | do..... | -- | -- | Mar. 1938 | 2.1 | 50 | 27 | -- | 13.00 | |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 1.8 | 2/76 | 40 | -- | .28 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1942 | 2.9 | 2/101 | 54 | -- | 0 | |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 2.0 | 2/112 | 60 | -- | 4.62 | |
| | do..... | do..... | do..... | -- | -- | Jan. 1952 | 7.3 | 2/119 | 63 | -- | 0 | |
| | do..... | do..... | do..... | -- | -- | Sept. 1953 | 1.7 | 2/138 | 73 | -- | 1.27 | |
| 70-25 | Puddingstone Dam..... | Puddingstone Creek..... | do..... | 32.2 | 4/11.0 | -- | -- | 17,398 | 540 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Jan. 1941 | 13.0 | 17,190 | 534 | -- | 1.45 | |
| | do..... | do..... | do..... | -- | -- | Jan. 1930 | -- | 1,194 | 265 | -- | -- | |
| 70-26 | Big Dalton..... | Big Dalton Creek..... | Glendora, Calif..... | 4.5 | 4.5 | Sept. 1931 | 1.7 | 1,039 | 231 | -- | 20.3 | |
| | do..... | do..... | do..... | -- | -- | Jan. 1935 | 3.3 | 1,053 | 234 | -- | -- | |
| | do..... | do..... | do..... | -- | -- | Mar. 1938 | 3.1 | .969 | 215 | -- | 6.02 | |
| | do..... | do..... | do..... | -- | -- | Sept. 1943 | 5.5 | .953 | 212 | -- | .65 | |
| | do..... | do..... | do..... | -- | -- | Oct. 1944 | 1.0 | .952 | 212 | -- | .22 | |

| | | | | | | | | | | | |
|--------|----------------------|-------------------------------|--------------------------|------|------|------------|------|----|--------|-----|----|
| 70-27a | Big Santa Anita..... | Santa Anita River..... | Arcadia, Calif..... | 10.8 | 10.8 | -- | 1923 | -- | 1,376 | 127 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1935 | 7.9 | -- | 1,068 | 99 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1936 | 1.0 | -- | 1,014 | 94 | -- |
| | do..... | do..... | do..... | -- | -- | July 1938 | 2.4 | -- | 1,688 | 64 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1940 | 1.6 | -- | 710 | 66 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1942 | 2.0 | -- | 701 | 65 | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1943 | 1.1 | -- | 568 | 53 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1943 | 5 | -- | 604 | 56 | -- |
| | do..... | do..... | do..... | -- | -- | May 1944 | 7 | -- | 697 | 65 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1947 | 2.7 | -- | 728 | 67 | -- |
| | do..... | do..... | do..... | -- | -- | July 1954 | 1.6 | -- | 584 | 54 | -- |
| | do..... | do..... | do..... | -- | -- | -- | -- | -- | 6,240 | 76 | -- |
| 70-28a | Big Tujunga Dam..... | Big Tujunga Dam..... | Sunland, Calif..... | 82.3 | 82.2 | May 1938 | 6.9 | -- | 4,734 | 58 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1939 | 1.5 | -- | 4,488 | 55 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1940 | 3 | -- | 4,568 | 56 | -- |
| | do..... | do..... | do..... | -- | -- | July 1941 | 1.5 | -- | 4,425 | 54 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1943 | 1.5 | -- | 4,043 | 49 | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1943 | 2 | -- | 4,236 | 51 | -- |
| | do..... | do..... | do..... | -- | -- | June 1944 | 1.1 | -- | 4,235 | 51 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1953 | 9.3 | -- | 4,089 | 50 | -- |
| | do..... | do..... | do..... | -- | -- | -- | -- | -- | 4,601 | 144 | -- |
| 70-29 | Devil's Gate..... | Arroyo Seco River..... | Pasadena, Calif..... | 31.9 | 31.9 | June 1933 | 13.0 | -- | 4,554 | 142 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1943 | 2 | -- | 4,127 | 130 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1935 | 3 | -- | 3,996 | 125 | -- |
| | do..... | do..... | do..... | -- | -- | June 1938 | 3.5 | -- | 2,967 | 93 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1942 | 3.6 | -- | 2,738 | 86 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1943 | 1.0 | -- | 2,504 | 80 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 5.7 | -- | 2,561 | 80 | -- |
| | do..... | do..... | do..... | -- | -- | -- | -- | -- | 956 | 101 | -- |
| 70-30a | Eaton Wash..... | Eaton Wash..... | Pasadena, Calif..... | 9.5 | 9.4 | Feb. 1937 | 1.0 | -- | 945 | 100 | -- |
| | do..... | do..... | do..... | -- | -- | May 1938 | 1.3 | -- | 698 | 73 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1938 | 6 | -- | 699 | 73 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1940 | 1.8 | -- | 711 | 75 | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1941 | 8 | -- | 681 | 72 | -- |
| | do..... | do..... | do..... | -- | -- | June 1942 | 8 | -- | 722 | 76 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1943 | 1.4 | -- | 632 | 67 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1944 | 1.0 | -- | 607 | 64 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1946 | 2.0 | -- | 674 | 71 | -- |
| | do..... | do..... | do..... | -- | -- | May 1947 | 6 | -- | 661 | 70 | -- |
| | do..... | do..... | do..... | -- | -- | June 1950 | 3.1 | -- | 665 | 70 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1952 | 1.6 | -- | 703 | 74 | -- |
| 70-31a | Pacolina..... | Pacolina Creek..... | San Fernando, Calif..... | 28.2 | 28.2 | Oct. 1939 | -- | -- | 6,060 | 215 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1936 | 6.3 | -- | 5,592 | 198 | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1938 | 2.1 | -- | 5,004 | 178 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1942 | 4.5 | -- | 4,837 | 172 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1944 | 2.0 | -- | 4,714 | 167 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1954 | 9.8 | -- | 4,787 | 170 | -- |
| 70-32 | Santiago..... | Santiago Creek..... | Villa Park, Calif..... | 63.0 | 62.1 | Dec. 1931 | -- | -- | 25,000 | 397 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 16.8 | -- | 24,840 | 394 | -- |
| | do..... | do..... | do..... | -- | -- | June 1957 | -- | -- | 476 | 144 | -- |
| 70-33 | Sawpit..... | Sawpit River..... | Monrovia, Calif..... | 3.3 | 3.3 | Oct. 1935 | 8.3 | -- | 389 | 118 | -- |
| | do..... | do..... | do..... | -- | -- | May 1938 | 2.6 | -- | 320 | 97 | -- |
| | do..... | do..... | do..... | -- | -- | May 1941 | 3.0 | -- | 342 | 104 | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1943 | 2.6 | -- | 322 | 98 | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1954 | 10.2 | -- | 305 | 92 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1958 | -- | -- | 50.3 | 21 | -- |
| 70-34 | Sierra Madre..... | Little Santa Anita Creek..... | Sierra Madre, Calif..... | 2.39 | 2.39 | Feb. 1930 | 2.0 | -- | 50.3 | 21 | -- |
| | do..... | do..... | do..... | -- | -- | Feb. 1932 | 2.0 | -- | 47.4 | 20 | -- |
| | do..... | do..... | do..... | -- | -- | Nov. 1939 | 7.8 | -- | 34.4 | 14 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1944 | 4.1 | -- | 44.3 | 19 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1944 | 8 | -- | 42.4 | 18 | -- |
| 70-35a | Thompson Creek..... | Thompson Creek..... | Claremont, Calif..... | 3.5 | 3.5 | Mar. 1928 | -- | -- | 692 | 198 | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1932 | 4.6 | -- | 643 | 184 | -- |
| | do..... | do..... | do..... | -- | -- | Jan. 1943 | 10.3 | -- | 612 | 175 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1954 | 11.7 | -- | 571 | 163 | -- |

1/Practically all sediment inflow is passed downstream by sluicing operations.
2/Storage frequently regained by sluicing operations.

3/Includes San Gabriel Dam No. 2 drainage area as sediment is sluiced into San Gabriel Reservoir No. 1.
4/21.1 Square miles controlled by San Dimas, Live Oak and Puddingstone Dams.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|--------------------------------|-------------------|--------------------------|-------------------------------|------|----------------|---------------------------------|-----------------------------|---|--|--|------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (Continued) | | | | | | | | | | | | |
| 70-36a | Aliso Wilbur Debris Basin..... | Aliso Canyon..... | Northridge, Calif..... | 8.63 | 8.63 | Sept. 1943 | 1 | 1/ | -- | -- | 3.17 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | 2.70 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | .63 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | 1.00 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | .91 | -- |
| 70-37a | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | .50 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | .24 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1952 | 2 | 1/ | -- | -- | 2.21 | -- |
| | do..... | do..... | Altadena, Calif..... | .65 | .65 | Sept. 1947 | 1 | 1/ | -- | -- | 1.34 | -- |
| 70-38a | Altadena Debris Basin..... | Rubio River..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | 1.92 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | 1.35 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | 1.58 | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1952 | 1.4 | 1/ | -- | -- | 1.88 | -- |
| | do..... | do..... | Sierra Madre, Calif..... | .57 | .57 | Sept. 1946 | 1 | 1/ | -- | -- | .84 | -- |
| 70-39a | Bailey Debris Basin..... | Bailey River..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | .18 | -- |
| 70-40a | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | .09 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | 0 | -- |
| 70-41a | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1952 | 2 | 1/ | -- | -- | 1.59 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1936 | 1 | 1/ | -- | -- | .69 | -- |
| | do..... | do..... | Tujunga, Calif..... | .84 | .84 | Sept. 1938 | 2 | 1/ | -- | -- | 29.0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1940 | 2 | 1/ | -- | -- | 8.14 | -- |
| 70-42a | do..... | do..... | do..... | -- | -- | Sept. 1941 | 1 | 1/ | -- | -- | 8.74 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1942 | 1 | 1/ | -- | -- | .27 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1943 | 1 | 1/ | -- | -- | 10.3 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | 2.87 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | .56 | -- |
| 70-43a | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | 3.13 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | 1.15 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | 0 | -- |
| 70-44a | do..... | do..... | do..... | -- | -- | Sept. 1952 | 2 | 1/ | -- | -- | 4.07 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1938 | 2 | 1/ | -- | -- | 21.2 | -- |
| | do..... | do..... | La Crescenta, Calif..... | .61 | .61 | Sept. 1939 | 2 | 1/ | -- | -- | 11.7 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1941 | 2 | 1/ | -- | -- | 7.03 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1942 | 1 | 1/ | -- | -- | .34 | -- |
| 70-45a | do..... | do..... | do..... | -- | -- | Sept. 1943 | 1 | 1/ | -- | -- | 15.7 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | 4.9 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | 1.11 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | 0 | -- |

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|------------------------------|-----------------------|-------------------------|-------------------------------|------|----------------|---------------------------------|-----------------------------|---|--|--|------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (Continued) | | | | | | | | | | | | |
| 70-48a | Los Flores Debris Basin..... | Los Flores River..... | Altadena, Calif..... | 0.45 | 0.45 | Sept. 1936 | 1 | 1/ | -- | -- | 14.7 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1938 | 2 | 1/ | -- | -- | 38.2 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1939 | 1 | 1/ | -- | -- | 1.53 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1942 | 4 | 1/ | -- | -- | 4.40 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | 3.71 | -- |
| 70-49a | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | .93 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | .96 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | .67 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1952 | 2 | 1/ | -- | -- | 1.29 | -- |
| | Lincoln Debris Basin..... | Lincoln River..... | do..... | .50 | .50 | Sept. 1936 | 1 | 1/ | -- | -- | 9.86 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1938 | 2 | 1/ | -- | -- | 17.8 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1940 | 2 | 1/ | -- | -- | 15.1 | -- |
| 70-50a | do..... | do..... | do..... | -- | -- | Sept. 1941 | 1 | 1/ | -- | -- | 6.48 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1943 | 2 | 1/ | -- | -- | 2.32 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | .58 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | 2.00 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Mar. 1952 | 1.4 | 1/ | -- | -- | 1.82 | -- |
| | do..... | do..... | Hollywood, Calif..... | .94 | .94 | Sept. 1942 | 5 | 1/ | -- | -- | 3.18 | -- |
| 70-51a | Nichols Debris Basin..... | Nichols River..... | do..... | -- | -- | Sept. 1943 | 1 | 1/ | -- | -- | 1.98 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | .48 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | .20 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | .15 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | 3.72 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | .29 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | .38 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | .80 | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1952 | 1.0 | 1/ | -- | -- | 5.82 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | 1.18 | -- |
| 70-52a | Paradise Debris Basin..... | Paradise River..... | La Canada, Calif..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | .92 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | 1.00 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | .14 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | .10 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | -- | Apr. 1952 | 1.6 | 1/ | -- | -- | 4.70 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1936 | 1 | 1/ | -- | -- | 11.0 | -- |
| | Pickens Debris Basin..... | Pickens River..... | La Cresenta, Calif..... | -- | -- | Sept. 1937 | 1 | 1/ | -- | -- | 6.89 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1938 | 1 | 1/ | -- | -- | 44.9 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1939 | 1 | 1/ | -- | -- | 2.95 | -- |
| 70-53a | do..... | do..... | do..... | -- | -- | Sept. 1940 | 1 | 1/ | -- | -- | 4.57 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1941 | 1 | 1/ | -- | -- | 11.6 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1943 | 2 | 1/ | -- | -- | 9.03 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1944 | 1 | 1/ | -- | -- | 3.00 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1945 | 1 | 1/ | -- | -- | .51 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1946 | 1 | 1/ | -- | -- | .23 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1947 | 1 | 1/ | -- | -- | .37 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1948 | 1 | 1/ | -- | -- | .37 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1949 | 1 | 1/ | -- | -- | .37 | -- |
| | do..... | do..... | do..... | -- | -- | Sept. 1950 | 1 | 1/ | -- | -- | .37 | -- |

| | | | | | | | | |
|--------|---------------------------------|--------------------------|--------------------------|-------|------------------|-----|----|------|
| 70-52a | Pickens Debris Basin..... | Pickens River..... | La Crescenta, Calif..... | -- | Sept. 1948 | 1 | -- | 0.15 |
| | do..... | do..... | do..... | -- | Sept. 1949 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 1 | -- | 2.25 |
| 70-53a | Rubio Debris Basin..... | Rubio Canyon..... | Altadena, Calif..... | 1.3 | 1.3 Sept. 1946 | 3 | -- | .69 |
| | do..... | do..... | do..... | -- | Sept. 1947 | 1 | -- | .32 |
| | do..... | do..... | do..... | -- | Sept. 1948 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1949 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1952 | 2 | -- | 1.23 |
| 70-54 | Scholl Debris Basin..... | Scholl River..... | Glendale, Calif..... | .66 | .66 Sept. 1947 | 2 | -- | .32 |
| | do..... | do..... | do..... | -- | Sept. 1948 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1949 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 1 | -- | 0 |
| 70-55a | Shields Debris Basin..... | Shields River..... | La Crescenta, Calif..... | .27 | .27 Sept. 1938 | 1 | -- | 77.0 |
| | do..... | do..... | do..... | -- | Sept. 1939 | 1 | -- | 10.1 |
| | do..... | do..... | do..... | -- | Sept. 1941 | 2 | -- | 10.9 |
| | do..... | do..... | do..... | -- | Sept. 1943 | 2 | -- | 5.85 |
| | do..... | do..... | do..... | -- | Sept. 1944 | 1 | -- | 2.33 |
| | do..... | do..... | do..... | -- | Sept. 1945 | 1 | -- | .52 |
| | do..... | do..... | do..... | -- | Sept. 1946 | 1 | -- | 1.04 |
| | do..... | do..... | do..... | -- | Sept. 1947 | 1 | -- | .04 |
| | do..... | do..... | do..... | -- | Sept. 1948 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1949 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 1 | -- | 0 |
| 70-56a | Snover Debris Basin..... | Snover River..... | La Crescenta, Calif..... | .23 | .23 Sept. 1938 | 2 | -- | 10.9 |
| | do..... | do..... | do..... | -- | Mar. 1952 | 1.5 | -- | 22.6 |
| | do..... | do..... | do..... | -- | Sept. 1939 | 1 | -- | 57.0 |
| | do..... | do..... | do..... | -- | Sept. 1941 | 2 | -- | 4.4 |
| | do..... | do..... | do..... | -- | Sept. 1943 | 2 | -- | 8.30 |
| | do..... | do..... | do..... | -- | Sept. 1945 | 2 | -- | .65 |
| | do..... | do..... | do..... | -- | Sept. 1952 | 7 | -- | 1.09 |
| 70-57a | Sparr Debris Basin..... | Sparr Canyon..... | Monterose, Calif..... | .84 | .84 Sept. 1947 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1948 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1949 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Mar. 1952 | 1.4 | -- | 3.52 |
| 70-58a | Stough Debris Basin..... | Stough River..... | Burbank, Calif..... | 1.65 | 1.65 Sept. 1943 | 3 | -- | 4.22 |
| | do..... | do..... | do..... | -- | Sept. 1944 | 1 | -- | 2.84 |
| | do..... | do..... | do..... | -- | Sept. 1945 | 1 | -- | 1.76 |
| | do..... | do..... | do..... | -- | Sept. 1946 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1947 | 1 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 3 | -- | 0 |
| | do..... | do..... | do..... | -- | Apr. 1952 | 1.6 | -- | 2.73 |
| 70-59a | Sunset Canyon Debris Basin..... | Sunset Canyon Creek..... | Encino, Calif..... | .44 | .44 Sept. 1942 | 13 | -- | 1.94 |
| | do..... | do..... | do..... | -- | Sept. 1944 | 2 | -- | .84 |
| | do..... | do..... | do..... | -- | Sept. 1945 | 1 | -- | .18 |
| | do..... | do..... | do..... | -- | Sept. 1946 | 1 | -- | .20 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 4 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1952 | 2 | -- | 2.41 |
| 70-60 | Vanalden Debris Basin..... | Vanalden River..... | Encino, Calif..... | 1.08 | 1.08 Sept. 1946 | 1 | -- | .32 |
| | do..... | do..... | do..... | -- | Sept. 1947 | 1 | -- | .02 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 3 | -- | -- |
| 70-61a | Verdugo Debris Basin..... | Verdugo Creek..... | Monterose, Calif..... | 15.5 | 10.0 Sept. 1938 | 3 | -- | 2.18 |
| | do..... | do..... | do..... | -- | Sept. 1941 | 3 | -- | 1.78 |
| | do..... | do..... | do..... | -- | Sept. 1943 | 2 | -- | 3.42 |
| | do..... | do..... | do..... | -- | Sept. 1944 | 1 | -- | 1.27 |
| | do..... | do..... | do..... | -- | Sept. 1950 | 6 | -- | 0 |
| | do..... | do..... | do..... | -- | Sept. 1952 | 2 | -- | 1.60 |
| | do..... | do..... | do..... | -- | Sept. 1953 | 1 | -- | .66 |
| 70-62a | Ward Debris Basin..... | Ward River..... | La Crescenta, Calif..... | 2/.35 | 2/.35 Sept. 1945 | 1 | -- | .51 |
| | do..... | do..... | do..... | -- | Sept. 1946 | 1 | -- | 1.63 |
| | do..... | do..... | do..... | -- | Sept. 1947 | 1 | -- | 4.86 |
| | do..... | do..... | do..... | -- | .64 Sept. 1948 | 1 | -- | 1.00 |

1/ Debris excavated at various times.

2/ Drainage area 0.35 square mile through 1947, 0.64 square mile, after 1947.

SUMMARY OF

RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|--------------------------------|------------------------------|-----------------------------|-------------------------------|-----|--------------------|---------------------------------|-----------------------------|---|--|--|-------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| SALTON SEA AND SOUTHERN CALIFORNIA COASTAL AND GREAT BASIN DRAINAGE (Continued) | | | | | | | | | | | | |
| 70-62a | Ward Debris Basin..... | Ward River..... | La Crescenta, Calif..... | .64 | | .64 Sept. 1949 | 1 | 1/ | -- | -- | .36 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1950 | 1 | -- | -- | -- | 1.11 | -- |
| | do..... | do..... | do..... | -- | | -- Feb. 1952 | 1.3 | -- | -- | -- | 6.42 | -- |
| 70-63a | West Ravine Debris Basin..... | West Ravine..... | Altadena, Calif..... | .25 | | .25 Sept. 1936 | 1 | -- | -- | -- | 16.5 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1937 | 1 | -- | -- | -- | 47.85 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1938 | 1 | -- | -- | -- | 45.42 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1940 | 2 | -- | -- | -- | 73.85 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1941 | 1 | -- | -- | -- | 3.60 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1942 | 1 | -- | -- | -- | 21.4 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1943 | 1 | -- | -- | -- | .44 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1944 | 1 | -- | -- | -- | 20.20 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1945 | 1 | -- | -- | -- | 8.00 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1946 | 1 | -- | -- | -- | .80 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1947 | 1 | -- | -- | -- | 1.56 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1948 | 1 | -- | -- | -- | 1.52 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1949 | 1 | -- | -- | -- | .02 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1950 | 1 | -- | -- | -- | 0 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1952 | 2 | -- | -- | -- | 0 | -- |
| 70-64 | Camp Marston..... | Dehr Creek..... | Julian, Calif..... | 1.6 | | 1.59 -- | -- | 44.1 | 27.6 | -- | 4.76 | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1951 | 33 | 36.9 | 23.1 | *60 | -- | 183.0 |
| 70-65 | Cooks Canyon Debris Basin..... | Cooks River..... | La Crescenta, Calif..... | .60 | | .60 Mar. 1952 | .2 | -- | -- | -- | 107.0 | -- |
| SAN JOAQUIN AND KEEN RIVER BASINS AND ADJACENT COASTAL DRAINAGE | | | | | | | | | | | | |
| 71-1 | Upper Crystal Springs..... | Laguna Creek..... | San Francisco, Calif..... | 13.3 | | 12.0 Jan. 1878 | -- | 29,138 | 2,191 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Oct. 1935 | 57.8 | 28,159 | 2,117 | -- | 1.41 | -- |
| 71-2 | Atascadero Park Lake..... | Atascadero Creek..... | Atascadero, California..... | 1.0 | | 1.0 -- | -- | 150 | 150 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Nov. 1947 | 29 | 136 | 136 | *60 | .48 | 627 |
| 71-3 | Hawkins..... | N. Fk. Los Vitoras Creek... | Hollister, Calif..... | 4.04 | | 4.01 -- | -- | 549 | 136 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- May 1940 | 28 | 532 | 132 | *60 | .15 | 196 |
| 71-4a | Salinas..... | Salinas River..... | Santa Margarita, Calif. .. | 111 | | 110 -- | -- | 26,000 | 234 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Nov. 1947 | 6 | 25,860 | 233 | -- | .21 | -- |
| | do..... | do..... | do..... | -- | | -- Aug. 1953 | 6 | 25,590 | 230 | 40 | .41 | 357 |
| 71-5 | Copperopolis..... | Penney Creek..... | Copperopolis, Calif..... | 2.06 | | 2.01 -- | -- | 265 | 129 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Aug. 1945 | 30 | 263 | 128 | 55 | .034 | 40.7 |
| 71-6 | Crane Valley..... | N. Fk. San Joaquin River... | California..... | 54.5 | | 52.7 -- | -- | 45,410 | 833 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- June 1946 | 45 | 45,028 | 826 | *62 | .161 | 217 |
| 71-7 | Davis..... | Shaw Creek..... | Stockton, Calif..... | 7.87 | | 7.62 -- | -- | 1,421 | 171 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Sept. 1945 | 28.0 | 1,367 | 174 | 63 | .251 | 344 |
| 71-8 | Don Pedro..... | Tuolumne River..... | Modesto, Calif..... | 1,001 | | 996.5 Mar. 1923 | -- | 289,000 | 289 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Nov. 1945 | 22.7 | 284,266 | 284 | *62 | .210 | 284 |
| 71-9 | Exchequer..... | Merced River..... | California..... | 1,027 | | 1,022.4 Sept. 1926 | -- | 289,000 | 281 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Mar. 1946 | 19.6 | 285,646 | 278 | 62 | .167 | 226 |
| 71-10 | Glimore..... | Trib. of Mormon Slough..... | Bellota, Calif..... | 5.01 | | 4.92 Sept. 1917 | -- | 579 | 116 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Aug. 1945 | 28.0 | 560 | 112 | 50 | .132 | 144 |
| 71-11 | Hume..... | Ten Mile Creek..... | California..... | 24.2 | | 24.1 June 1909 | -- | 1,410 | 58.3 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- June 1946 | 37.0 | 1,383 | 57.1 | *62 | .030 | 40.5 |
| 71-12 | La Grange..... | Tuolumne River..... | do..... | 1,501 | | 2/1,501 Sept. 1895 | -- | 2,332 | 1.6 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- Oct. 1905 | 10.1 | 1,068 | .7 | *70 | .083 | 127 |
| 71-13 | Lyons..... | S. Fk. Stanislaus Creek..... | do..... | 40.0 | | 39.7 June 1930 | -- | 5,500 | 138 | -- | -- | -- |
| | do..... | do..... | do..... | -- | | -- June 1946 | 16.0 | 5,436 | 136 | *70 | .101 | 154 |

| | | | | | | | | | | | | | | |
|-------|--------------------------------|----------------------------|--------------------------|-------|-------|------------|---------|-------|----|-----|-----|----|-----|--------|
| 71-14 | McCarthy..... | Trib. of Johnny Creek..... | California..... | .35 | .32 | Dec. 1937 | 96.3 | 275 | -- | -- | 275 | -- | -- | 294 |
| 71-15 | Pardee..... | Mokelumne River..... | Lodi, Calif..... | 3/387 | 383.5 | Sept. 1929 | 95.5 | 273 | -- | *45 | 300 | -- | 300 | 294 |
| 71-16 | Salt Springs Valley..... | Rock Creek..... | California..... | 20.3 | 18.4 | Aug. 1943 | 210,000 | 541 | -- | *62 | 152 | -- | 152 | 205 |
| 71-17 | Upper Bear River..... | Bear River..... | California..... | 28.5 | 28.2 | July 1945 | 12,930 | 637 | -- | *50 | 201 | -- | 201 | 219 |
| 71-18 | Woods Pond..... | Sycamore Creek..... | Danville, Calif..... | .30 | .30 | Sept. 1946 | 6,712 | 235 | -- | *70 | 017 | -- | 017 | 26 |
| 71-19 | St. Mary's..... | Walnut Creek..... | Walnut Creek, Calif..... | 3.11 | 2.97 | -- | 4.41 | 14.7 | -- | *80 | 053 | -- | 053 | 923 |
| 71-20 | Black Hills..... | Green Valley Creek..... | Danville, Calif..... | .76 | .76 | -- | 134.01 | 43.0 | -- | -- | -- | -- | -- | 647 |
| 71-21 | Lakewood..... | Walnut Creek..... | Concord, Calif..... | .75 | .74 | -- | 88.59 | 28.4 | -- | *45 | 66 | -- | 66 | 647 |
| 71-22 | Contra Costa Country Club..... | Grayson Creek..... | Pacheco, Calif..... | .20 | .20 | -- | 32.68 | 43.0 | -- | -- | -- | -- | -- | 110.2 |
| 71-23 | Englehart Pond..... | Marsh Creek..... | Brentwood, Calif..... | .033 | .033 | -- | 27.04 | 35.5 | -- | 46 | 11 | -- | 11 | 110.2 |
| 71-24 | C. C. Anderson Pond..... | do..... | do..... | .083 | .083 | Jan. 1953 | 6,712 | 235 | -- | *70 | 017 | -- | 017 | 26 |
| 71-25 | Upper Walter Keller Pond..... | do..... | do..... | .027 | .027 | Oct. 1952 | 27.08 | 36.1 | -- | 30 | 076 | -- | 076 | 49.66 |
| 71-26 | F. J. Hoey Pond..... | do..... | do..... | .045 | .045 | Oct. 1952 | 24.86 | 33.1 | -- | -- | -- | -- | -- | 131 |
| 71-27 | Lee Higgins Pond..... | do..... | do..... | .202 | .199 | Jan. 1945 | 5.75 | 28.7 | -- | -- | 15 | -- | 15 | 131 |
| 71-28 | Souza..... | do..... | do..... | .319 | .283 | Oct. 1952 | 1.34 | 40.6 | -- | *60 | 088 | -- | 088 | 115 |
| 71-29 | Ordway..... | do..... | do..... | .619 | .613 | Oct. 1952 | 1.920 | 23.1 | -- | -- | -- | -- | -- | 16.33 |
| 71-30 | North Fork..... | Pacheco Creek..... | Hollister, Calif..... | 66.2 | 66.0 | Oct. 1952 | 1.864 | 22.4 | -- | *65 | 096 | -- | 096 | 16.33 |
| | do..... | do..... | do..... | -- | -- | Oct. 1952 | 1.347 | 49.9 | -- | -- | -- | -- | -- | 594 |
| | do..... | do..... | do..... | -- | -- | Oct. 1952 | 1.185 | 43.88 | -- | *40 | 682 | -- | 682 | 594 |
| | do..... | do..... | do..... | -- | -- | Oct. 1952 | 2.45 | 54.4 | -- | -- | -- | -- | -- | 692.38 |
| | do..... | do..... | do..... | -- | -- | Jan. 1953 | 2.32 | 51.5 | -- | *55 | 578 | -- | 578 | 692.38 |
| | do..... | do..... | do..... | -- | -- | Jan. 1953 | 12.60 | 62.37 | -- | -- | -- | -- | -- | 130.68 |
| | do..... | do..... | do..... | -- | -- | Oct. 1953 | 12.28 | 60.79 | -- | *40 | 15 | -- | 15 | 130.68 |
| | do..... | do..... | do..... | -- | -- | Oct. 1953 | 176.49 | 55.3 | -- | -- | -- | -- | -- | 584 |
| | do..... | do..... | do..... | -- | -- | Jan. 1953 | 174.97 | 54.8 | -- | *30 | 894 | -- | 894 | 584 |
| | do..... | do..... | do..... | -- | -- | Jan. 1953 | 60.9 | 98.3 | -- | -- | -- | -- | -- | 2,897 |
| | do..... | do..... | do..... | -- | -- | Jan. 1953 | 60.07 | 97.0 | -- | *70 | 19 | -- | 19 | 2,897 |
| | do..... | do..... | do..... | -- | -- | Jan. 1953 | 5,803 | 87.7 | -- | -- | -- | -- | -- | 117.61 |
| | do..... | do..... | do..... | -- | -- | Apr. 1951 | 5,706 | 86.2 | -- | *45 | 12 | -- | 12 | 117.61 |

SACRAMENTO, EEL AND RUSSIAN RIVER BASINS

| | | | | | | | | | | | | | | |
|-------|-------------------------------|---------------------|---------------------|------|------|-----------|--------|------|----|------|------|----|------|-------|
| 72-1 | Ridgewood (Walker)..... | Forsythe Creek..... | Ukiah, Calif..... | 5.9 | 5.9 | 1930 | 313 | 53.1 | -- | -- | -- | -- | -- | 305 |
| 72-2 | Morris..... | James Creek..... | Willits, Calif..... | 5.22 | 5.16 | Apr. 1949 | 282 | 47.8 | -- | *50 | 0.28 | -- | 0.28 | 305 |
| 72-3 | Big Canyon..... | do..... | do..... | 5.50 | 5.48 | Apr. 1949 | 696 | 133 | -- | *50 | 22 | -- | 22 | 240 |
| 72-4 | Blodgett..... | do..... | do..... | 3.12 | 3.05 | Nov. 1934 | 200 | 36.4 | -- | -- | -- | -- | -- | 67.2 |
| 72-5 | Bullards Bay..... | do..... | do..... | -- | -- | Oct. 1945 | 196 | 35.6 | -- | -- | 44.7 | -- | 44.7 | 67.2 |
| 72-6 | Combie (Van Geisen)..... | do..... | do..... | -- | -- | Mar. 1940 | 258 | 82.7 | -- | -- | -- | -- | -- | 217 |
| 72-7 | East Park..... | do..... | do..... | -- | -- | Oct. 1945 | 254 | 81.4 | -- | 46 | 217 | -- | 217 | 217 |
| 72-8 | Faulke Lake (False Lake)..... | do..... | do..... | -- | -- | Oct. 1919 | 31,500 | 65.6 | -- | -- | -- | -- | -- | 433 |
| 72-9 | Gerber..... | do..... | do..... | -- | -- | Jan. 1939 | 28,893 | 60.2 | -- | *70 | 284 | -- | 284 | 433 |
| 72-10 | Magalia..... | do..... | do..... | -- | -- | June 1928 | 8,545 | 65.7 | -- | -- | -- | -- | -- | 1,140 |
| 72-11 | Stony Gorge..... | do..... | do..... | -- | -- | Oct. 1935 | 7,840 | 60.3 | -- | *70 | 749 | -- | 749 | 1,140 |
| 72-12 | Misselbeck..... | do..... | do..... | -- | -- | Dec. 1910 | 41,098 | 405 | -- | -- | -- | -- | -- | 231 |
| | do..... | do..... | do..... | -- | -- | Feb. 1946 | 40,439 | 398 | -- | *56 | 189 | -- | 189 | 231 |
| | do..... | do..... | do..... | -- | -- | Dec. 1951 | 130 | 183 | -- | -- | -- | -- | -- | 173 |
| | do..... | do..... | do..... | -- | -- | Dec. 1945 | 120 | 169 | -- | 54 | 147 | -- | 147 | 173 |
| | do..... | do..... | do..... | -- | -- | June 1917 | 190 | 613 | -- | -- | -- | -- | -- | 1,656 |
| | do..... | do..... | do..... | -- | -- | Dec. 1945 | 28.5 | 587 | -- | 78.3 | 971 | -- | 971 | 1,656 |
| | do..... | do..... | do..... | -- | -- | Jan. 1918 | 182 | 452 | -- | -- | -- | -- | -- | 326 |
| | do..... | do..... | do..... | -- | -- | Jan. 1946 | 3,718 | 443 | -- | 48.8 | 307 | -- | 307 | 326 |
| | do..... | do..... | do..... | -- | -- | Nov. 1928 | 48,889 | 245 | -- | -- | -- | -- | -- | 231 |
| | do..... | do..... | do..... | -- | -- | Mar. 1946 | 48,219 | 242 | -- | 54 | 196 | -- | 196 | 231 |
| | do..... | do..... | do..... | -- | -- | May 1920 | 4,300 | 358 | -- | -- | -- | -- | -- | 1,161 |
| | do..... | do..... | do..... | -- | -- | Dec. 1945 | 4,086 | 341 | -- | 75 | 711 | -- | 711 | 1,161 |

1/Debris excavated at various times.

2/Before construction of Don Pedro Reservoir in 1923.

3/Excluding non-contributing areas above Salt Springs and Bear River Reservoirs.

4/Excluding 3 square miles above P. G. & E. Canal.

*Estimated or assumed.

SUMMARY OF

RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER-SHED RATIO IN ACRE-FT PER SQ. MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU. FT. | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ. MI. FOR PERIOD | |
|--|-----------------------------------|-------------------------------|-------------------------|-------------------------------|-------|----------------|---------------------------------|-----------------------------|--|--|---|-------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| KLAMATH, ROGUE AND UMPQUA RIVER BASINS | | | | | | | | | | | | |
| 73-1 | Emigrant Gap..... | Emigrant Creek..... | Ashland, Ore..... | 61.6 | 61.2 | Oct. 1924 | -- | 1/8,300 | 135 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 27 | 7,500 | 122 | -- | 0.214 | -- |
| LOWER COLUMBIA RIVER BASIN AND PACIFIC COAST BASINS IN NORTHERN OREGON | | | | | | | | | | | | |
| 74-1 | Condit (White Salmon)..... | White Salmon River..... | Underwood, Wash..... | 337 | 337 | -- | 1913 | 1,081 | 3.21 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1936 | 23 | 2/1,054 | 3.13 | -- | 0.004 | -- |
| 74-2 | Lake Harriet (Oak Grove)..... | Trib. of Clakamas..... | Portland, Ore..... | 126 | 126 | Aug. 1924 | -- | 256 | 2 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Aug. 1948 | 24 | 252 | 2 | -- | .0013 | -- |
| 74-3 | McKay..... | McKay Creek..... | Pendleton, Ore..... | 186 | 184 | Oct. 1926 | -- | 73,737 | 396 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1946 | 19.75 | 73,474 | 395 | 40 | .07 | 61 |
| 74-4 | Cottage Grove..... | Coast Fk. Willamette..... | Cottage Grove, Ore..... | 104 | 102 | Oct. 1942 | -- | 33,000 | 317 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Dec. 1947 | 5.1 | 32,873 | 316 | -- | .244 | -- |
| 74-5 | Luther Claypool Pond..... | Trib. of Beaver Creek..... | Post, Ore..... | 1.09 | 1.09 | -- | 1946 | 3.79 | 3.48 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 5 | 3.59 | 3.29 | *70 | .37 | 564 |
| 74-6 | Paul Jaegar No. 1 Pond..... | Trib. of John Day River..... | Condon, Ore..... | .625 | .624 | -- | 1943 | 1.82 | 2.91 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 8 | 1.40 | 2.22 | *70 | .085 | 130 |
| 74-7 | Paul Jaegar No. 2 Pond..... | Trib. of Rock Creek..... | do..... | .468 | .467 | -- | 1946 | 3.19 | 6.85 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 5 | 2.51 | 5.36 | *70 | .299 | 456 |
| 74-8 | Paul Jaegar No. 3 Pond..... | Trib. of John Day River..... | do..... | .250 | .249 | -- | 1944 | 3.40 | 12.16 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 7 | 2.81 | 11.24 | *70 | .12 | 183 |
| 74-9 | J. N. Wilson Pond..... | Trib. of Deschutes River..... | Moro, Ore..... | 1.50 | 1.50 | -- | 1946 | 1.08 | .72 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 5 | .97 | .65 | *70 | .01 | 15.24 |
| 74-10 | Willard Barnet Pond..... | Buck Creek..... | Kent, Ore..... | .210 | .209 | -- | 1941 | 2.91 | 13.86 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 10 | 2.41 | 11.48 | *70 | .24 | 366 |
| 74-11 | Arthur Schmidt Pond..... | Trib. of Buck Creek..... | Shaniko, Ore..... | .115 | .114 | -- | 1940 | 2.00 | 17.39 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 11 | 1.97 | 17.13 | *70 | .03 | 45.73 |
| 74-12 | Rock Creek Improvement Co..... | Trib. of White River..... | Tygh Valley, Ore..... | 5.62 | 5.60 | -- | 1938 | 250 | 44.5 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 13 | 3/247 | 43.9 | *70 | .045 | 68.61 |
| 74-13 | Vernon Christ Pond..... | Five Mile Creek..... | Dufur, Ore..... | .089 | .088 | -- | 1941 | 1.61 | 18.0 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 10 | 1.39 | 15.6 | *70 | .227 | 346 |
| 74-14 | Milt J. Martin Pond..... | Mill Creek..... | The Dalles, Ore..... | .070 | .069 | -- | 1944 | 2.72 | 38.8 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 7 | 2.58 | 36.8 | *70 | .29 | 442 |
| 74-15 | Hunt Livestock Co. Pond..... | Trib. of Buck Creek..... | Shaniko, Ore..... | .050 | .050 | -- | 1942 | 2.25 | 45.0 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 9 | 2.15 | 43.0 | *70 | .20 | 305 |
| 74-16 | Cold Springs..... | Cold Springs Canyon..... | Cold Springs, Ore..... | 188 | 186 | Feb. 1908 | -- | 49,709 | 264.4 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | May 1951 | 43 | 44,668 | 237.5 | 78 | .63 | 1,070 |
| COLUMBIA RIVER BASIN (GRAND COULEE TO UMATILLA) AND PACIFIC COAST DRAINAGE IN WASHINGTON | | | | | | | | | | | | |
| Yakima, Chelan and Okanogan River Basins | | | | | | | | | | | | |
| 75-1 | Diablo..... | Skagit River..... | Bellingham, Wash..... | 1,100 | 1,100 | -- | 1930 | 89,220 | 81.1 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | July 1936 | 6 | 88,862 | 80.8 | -- | 0.054 | -- |
| 75-2 | High Valley Ranch No. 1 Pond..... | Wenas Creek..... | Yakima, Wash..... | 4.11 | 4.10 | -- | 1959 | 8.61 | 2.1 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 12 | 7.63 | 1.9 | *70 | .02 | 30.49 |
| 75-3 | High Valley Ranch No. 2 Pond..... | do..... | Ellensburg, Wash..... | .184 | .184 | -- | 1940 | .58 | 3.15 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 11 | 1.51 | 2.77 | *70 | .04 | 61.0 |
| 75-4 | High Valley Ranch No. 3..... | do..... | do..... | .312 | .312 | -- | 1940 | 1.53 | 4.9 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 11 | 1.42 | 4.6 | *70 | .03 | 46.0 |
| 75-5 | Henry Clert Pond..... | Rye Grass Creek..... | do..... | 6.47 | 6.47 | -- | 1946 | 2.38 | .37 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 5 | 2.02 | .31 | *70 | .01 | 15.24 |
| 75-6 | Coffin Sheep Co. Pond..... | Naches River..... | Yakima, Wash..... | .482 | .480 | -- | 1959 | 2.63 | 5.5 | -- | -- | -- |
| | do..... | do..... | do..... | -- | -- | Oct. 1951 | 12 | 2.47 | 5.1 | *70 | .027 | 41.16 |

COLUMBIA RIVER BASIN (INTERNATIONAL BOUNDARY TO GRAND COULEE) AND PACIFIC COAST DRAINAGE IN WASHINGTON
Pendoreille, Spokane, Walla Walla and Lower Snake River Basins

| | | | | | | | | | | | | | |
|-------|-------------------------------|--------------------------------|-------------------|-------|-------|----|------|----|------|-------|-----|------|-------|
| 76-1 | Mrs. Weiss No. 1 Pond..... | Asotin Creek..... | Asotin, Wash..... | 0.129 | 0.128 | -- | 1945 | -- | 1.45 | 11.2 | -- | -- | -- |
| 76-2 | Mrs. Weiss No. 2 Pond..... | do..... | do..... | -- | -- | -- | 1945 | 6 | 1.23 | 9.6 | *70 | 0.31 | 473 |
| 76-3 | Lester Reeves No. 1 Pond..... | do..... | do..... | -- | .218 | -- | 1945 | -- | 2.54 | 11.6 | -- | -- | -- |
| 76-4 | Lester Reeves No. 2 Pond..... | do..... | do..... | -- | -- | -- | 1945 | 6 | 2.14 | 9.8 | *70 | .31 | 473 |
| 76-5 | Dan Holt Pond..... | Asotin Creek N. & S. Fork..... | do..... | .101 | .100 | -- | 1941 | -- | 1.45 | 14.3 | -- | -- | -- |
| 76-6 | do..... | do..... | do..... | -- | -- | -- | 1941 | 10 | 1.18 | 11.6 | *70 | .027 | 412 |
| 76-7 | do..... | do..... | do..... | -- | .125 | -- | 1945 | -- | 1.21 | 9.7 | -- | -- | -- |
| 76-8 | do..... | do..... | do..... | -- | -- | -- | 1945 | 6 | .69 | 5.6 | *70 | .70 | 1,067 |
| 76-9 | do..... | do..... | do..... | -- | .110 | -- | 1944 | -- | 2.20 | 20.0 | -- | -- | -- |
| 76-10 | do..... | do..... | do..... | -- | -- | -- | 1944 | 7 | 2.11 | 19.1 | *70 | .12 | 183 |
| 76-11 | do..... | do..... | do..... | -- | -- | -- | 1945 | -- | -- | -- | -- | -- | -- |
| 76-12 | do..... | do..... | do..... | -- | .014 | -- | 1946 | -- | 4.22 | 301.9 | -- | -- | -- |
| 76-13 | do..... | do..... | do..... | -- | -- | -- | 1946 | 5 | 3.87 | 276.4 | *70 | 5.38 | 3,202 |
| 76-14 | do..... | do..... | do..... | -- | .021 | -- | 1946 | -- | 2.54 | 121 | *70 | 4.20 | 6,403 |
| 76-15 | do..... | do..... | do..... | -- | -- | -- | 1945 | 5 | 2.12 | 101 | -- | -- | -- |
| 76-16 | do..... | do..... | do..... | -- | .015 | -- | 1945 | 6 | 4.58 | 305 | -- | -- | -- |
| 76-17 | do..... | do..... | do..... | -- | -- | -- | 1943 | 6 | 4.40 | 283 | *70 | 2.14 | 3,263 |
| 76-18 | do..... | do..... | do..... | -- | .021 | -- | 1943 | 8 | 2.71 | 129 | -- | -- | -- |
| 76-19 | do..... | do..... | do..... | -- | -- | -- | 1941 | -- | 2.52 | 120 | *70 | 1.20 | 1,830 |
| 76-20 | do..... | do..... | do..... | -- | .043 | -- | 1941 | -- | 2.49 | 57.8 | -- | -- | -- |
| 76-21 | do..... | do..... | do..... | -- | -- | -- | 1941 | 10 | 2.41 | 56.0 | *70 | .19 | 290 |
| 76-22 | do..... | do..... | do..... | -- | .014 | -- | 1943 | -- | 5.16 | 388.6 | -- | -- | -- |
| 76-23 | do..... | do..... | do..... | -- | -- | -- | 1943 | 8 | 4.97 | 335.0 | *70 | 3.3 | 5,031 |
| 76-24 | do..... | do..... | do..... | -- | .014 | -- | 1944 | -- | 1.29 | 92.2 | -- | -- | -- |
| 76-25 | do..... | do..... | do..... | -- | -- | -- | 1944 | 7 | 1.23 | 87.7 | *70 | .64 | 976 |
| 76-26 | do..... | do..... | do..... | -- | -- | -- | 1945 | -- | -- | -- | -- | -- | -- |
| 76-27 | do..... | do..... | do..... | -- | .014 | -- | 1931 | -- | .80 | 57.1 | -- | -- | -- |
| 76-28 | do..... | do..... | do..... | -- | -- | -- | 1931 | 20 | .62 | 44.2 | *70 | .64 | 976 |

COLUMBIA RIVER BASIN IN CANADA

Snake River Basin (from King Hill to Grande Ronde River)

| | | | | | | | | | | | | | |
|-------|--------------------------------|--------------------|--------------------|-------|------------|----|------|------|---------|-------|-----|------|-------|
| 78-1 | Orchard..... | Indian Creek..... | Boise, Idaho..... | 43 | 42.8 | -- | 1892 | -- | 4,737 | 110 | -- | -- | -- |
| 78-2 | Black Canyon..... | do..... | do..... | -- | -- | -- | 1947 | 55 | 4,668 | 109 | -- | 0.03 | -- |
| 78-3 | Pleasant Valley..... | Payette River..... | Emmett, Idaho..... | 2,750 | 2,540 | -- | 1924 | -- | 37,659 | 13.7 | -- | -- | -- |
| 78-4 | Arrowrock - Boise Project..... | do..... | do..... | -- | -- | -- | 1936 | 12 | 33,622 | 12.2 | -- | .132 | -- |
| 78-5 | Andy Anderson Pond..... | do..... | do..... | 16 | 16 | -- | 1905 | -- | 7,897 | 494 | -- | -- | -- |
| 78-6 | Milton Branch Pond..... | do..... | do..... | -- | -- | -- | 1905 | 42 | 7,855 | 491 | -- | .063 | -- |
| 78-7 | W. B. Winniger Pond..... | do..... | do..... | 2,211 | 4 1/2, 170 | -- | 1947 | -- | 279,250 | 128.7 | -- | -- | -- |
| 78-8 | Miller Smeed Pond..... | do..... | do..... | -- | -- | -- | 1945 | 32.6 | 271,550 | 123.1 | 73 | .109 | 173.3 |
| 78-9 | Twin Puddles Pond..... | do..... | do..... | -- | .590 | -- | 1905 | -- | 104.20 | 169.8 | -- | -- | -- |
| 78-10 | Lambkin Pond..... | do..... | do..... | -- | .436 | -- | 1951 | 46 | 100.67 | 163.9 | *70 | .136 | 207 |
| 78-11 | Mud Springs Pond..... | do..... | do..... | -- | .434 | -- | 1940 | -- | 44.49 | 102.0 | -- | -- | -- |
| 78-12 | J. J. Coltin Pond..... | do..... | do..... | -- | .538 | -- | 1943 | 11 | 43.24 | 96.8 | *70 | .259 | 395 |
| 78-13 | do..... | do..... | do..... | -- | .217 | -- | 1945 | 8 | 17.58 | 32.4 | -- | -- | -- |
| 78-14 | do..... | do..... | do..... | -- | .161 | -- | 1941 | 6 | 16.57 | 30.8 | *70 | .240 | 366 |
| 78-15 | do..... | do..... | do..... | -- | .191 | -- | 1941 | -- | 2.90 | 13.3 | -- | -- | -- |
| 78-16 | do..... | do..... | do..... | -- | .106 | -- | 1939 | 12 | 12.18 | 11.0 | *70 | .03 | 45.73 |
| 78-17 | do..... | do..... | do..... | -- | .483 | -- | 1939 | -- | 1.08 | 2.23 | -- | -- | -- |
| 78-18 | do..... | do..... | do..... | -- | -- | -- | 1931 | 12 | .84 | 1.73 | *70 | .04 | 61.0 |

4/ Does not include drainage area above Little Camas Reservoir.

* Estimated or assumed.

1/ Capacity survey considered unreliable.

2/ Dam was raised 5 feet in 1927.

3/ Reservoir was thoroughly cleaned in 1927.

SUMMARY OF
RESERVOIR SEDIMENTATION SURVEYS MADE IN THE UNITED STATES THROUGH 1953

| DATA SHEET NUMBER | RESERVOIR | STREAM | NEAREST TOWN | DRAINAGE AREA IN SQUARE MILES | | DATE OF SURVEY | PERIOD BETWEEN SURVEYS IN YEARS | STORAGE CAPACITY IN ACRE-FT | CAPACITY WATER- SHED RATIO IN ACRE-FT PER SQ MI. | SPECIFIC WEIGHT IN LBS (DRY) PER CU FT | AVERAGE ANNUAL SEDIMENT ACCUMULATION PER SQ MI. FOR PERIOD | |
|---|-----------------------------|----------------------|---------------------------|----------------------------------|------|----------------------|--|--------------------------------------|---|--|---|-------|
| | | | | TOTAL | NET | | | | | | ACRE-FT | TONS |
| | | | | | | | | | | | | |
| SNAKE RIVER BASIN (ABOVE KINGS HILL) AND SALMON RIVER BASIN | | | | | | | | | | | | |
| 79-1 | Rattlesnake Butte Pond..... | Big Wood River..... | Gooding, Idaho..... | 4.81 | 4.80 | -- 1943 | -- | 25.5 | 5.31 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Sept. 1951 | 8 | 23.89 | 4.96 | *70 | 0.04 | 61 |
| PUERTO RICO | | | | | | | | | | | | |
| 80-1 | Caonillas..... | Caonillas River..... | Utuaado, Puerto Rico..... | 1/48 | 47.9 | June 1948 | -- | 2/50,149 | 1,026 | -- | -- | -- |
| |do..... |do..... |do..... | -- | -- | Nov. 1952 | 4.3 | 49,863 | 1,020 | 38.1 | 1.29 | 1,070 |
| 1/ Caonillas Extension Project increases the drainage area to 85.5 square miles; put into operation during October 1952. | | | | | | | | | | | | |
| 2/ Determined by 1952 survey. * Estimated or assumed. | | | | | | | | | | | | |

2/ Determined by 1952 survey.

* Estimated or assumed.

1/ Caonillas Extension Project increases the drainage area to 85.5 square miles; put into operation during October 1952.

RESERVOIR SEDIMENTATION DATA

Conchas Reservoir

47-1

NAME OF RESERVOIR

DATA SHEET NO.

| | | | | | | | | |
|---|---|--|-----------------------------------|--|---|---------------------------------|------------------------|----------------------------------|
| DAM | 1. OWNER Dept of Army, C of E | | | 2. RIVER Canadian | | 3. STATE New Mexico | | |
| | 4. SEC. Pablo TWP Montoya RANGE Grant | | | 5. NEAREST TOWN Newkirk, N.Mex. | | 6. COUNTY San Miguel | | |
| | 7. STREAM BED ELEV. 4040 | | | 8. TOP OF DAM ELEV. 4240 | | 9. SPILLWAY CREST ELEV. 4218 | | |
| RESERVOIR | 10. STORAGE ALLOCATION | 11. ELEVATION TOP OF POOL | 12. SURFACE AREA ACRES | 13. STORAGE ACRE-FEET | 14. ACCUMULATED ACRE-FEET | 15. DATE STORAGE BEGAN | | |
| | a. FLOOD CONTROL | 4218 | 13,715 | 201,834 | 601,112 | 1 Jan 1939 | | |
| | b. POWER | | | | | | | |
| | c. WATER SUPPLY | | | | | | | |
| | d. IRRIGATION | | | | | | | |
| | e. CONSERVATION | 4201 | 10,073 | 296,412 | 399,278 | 16. DATE NORMAL OPER. BEGAN | | |
| | f. INACTIVE | 4155 | 3,520 | 102,866 | 102,866 | | | |
| 17. LENGTH OF RESERVOIR Canadian Arm 23 2/3 MILES AV. WIDTH OF RESERVOIR 4200 Contour, 0.75 MILES | | | | | | | | |
| WATERSHED | 18. TOTAL DRAINAGE AREA 7,350 SQ.MI. | | | 22. MEAN ANNUAL PRECIPITATION (38 yrs) 16.8 INCHES | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 6,950 SQ.MI. | | | 23. MEAN ANNUAL RUNOFF 0.54 3/4 INCHES | | | | |
| | 20. LENGTH 100 MILES AV. WIDTH 73 MILES | | | 24. MEAN ANNUAL RUNOFF (44 yrs) 213,400 AC.-FT. | | | | |
| | 21. MAX. ELEV. 13,000 MIN. ELEV. 4,040 | | | 25. CLIMATIC CLASSIFICATION Semi-arid | | | | |
| | | | | | | | | |
| SURVEY DATA | 26. DATE OF SURVEY | 27. PERIOD YEARS | 28. ACCL. YEARS | 29. TYPE OF SURVEY | 30. NO. OF RANGES OR CONTOUR INT. | 31. SURFACE AREA ACRES | 32. CAPACITY ACRE-FEET | 33. C/W RATIO AC.-FT. PER SQ.MI. |
| | 1 Jan 1939 | | | Contour | 10 feet | 13,715 | 601,112 | 82 |
| | May 1940 | 1.4 | | Range | 14 ranges | | 599,712 | 82 |
| | June 1942 | 2.1 | 3.4 | Range | 24 ranges | | 585,112 | 80 |
| | Nov 1942 | .4 | 3.8 | Range | 28 ranges | | 581,112 | 79 |
| | Oct 1944 | 1.9 | 5.7 | Contour | 10 feet | 13,349 | 576,756 | 78 |
| | Feb 1949 | 4.3 | 10.1 | Contour | 10 feet | 13,552 | 566,163 | 77 |
| | 26. DATE OF SURVEY | 34. PERIOD ANNUAL PRECIPITATION | 35. PERIOD WATER INFLOW ACRE-FEET | | | 36. WATER INFL. TO DATE AC.-FT. | | |
| | | | a. MEAN ANNUAL | b. MAX. ANNUAL | c. PERIOD TOTAL | a. MEAN ANNUAL | b. TOTAL TO DATE | |
| | May 1940 | 14.26 | | | 114,264 | | 114,264 | |
| | June 1942 | 22.40 | 652,279 | 963,370 | 1,369,786 | 436,485 | 1,484,050 | |
| | Nov 1942 | 12.50 | | | 457,288 | 510,878 | 1,941,338 | |
| | Oct 1944 | 14.32 | | | 235,603 | 381,919 | 2,176,941 | |
| | Feb 1949 | 13.68 | 122,942 | 154,702 | 528,651 | 266,536 | 2,705,592 | |
| | 26. DATE OF SURVEY | 37. PERIOD SEDIMENT DEPOSITS ACRE-FEET | | | 38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET | | | |
| | | a. PERIOD TOTAL | b. AV. ANNUAL | c. PER SQ.MI.-YR. | a. TOTAL TO DATE | b. AV. ANNUAL | c. PER SQ.MI.-YR. | |
| | May 1940 | 1,400 | | | 1,400 | 1,000 | .144 | |
| | June 1942 | 14,600 | 6,952 | 1.000 | 16,000 | 4,710 | .677 | |
| | Nov 1942 | 4,000 | | | 20,000 | 5,260 | .757 | |
| | Oct 1944 | 4,360 | 2,290 | .330 | 24,360 | 4,280 | .615 | |
| Feb 1949 | 10,600 (11,250) | 2,460 (2,610) | .354 (.376) | 34,950 (35,600) | 3,460 (3,520) | .498 (.506) | | |
| 26. DATE OF SURVEY | 39. AV. DRY WGT. LBS. PER CU.FT. | 40. SED. DEP. TONS PER SQ.MI.-YR. | | 41. STORAGE LOSS PCT. | | 42. SED. INFLOW PPM | | |
| | | a. PERIOD | b. TOTAL TO DATE | a. AV. ANNUAL | b. TO DATE | a. PERIOD | b. TO DATE | |
| May 1940 | 75.7 | | 255 | .17 | .23 | 14,863 | 14,863 | |
| June 1942 | 75.7 | 1,648 | 1,116 | .78 | 2.66 | 12,930 | 13,079 | |
| Nov 1942 | 75.7 | | 1,248 | .88 | 3.33 | 10,612 | 12,498 | |
| Oct 1944 | 75.7 | 544 | 1,014 | .71 | 4.05 | 22,429 | 13,573 | |
| Feb 1949 | 75.7 | 584 (620) | 821 (834) | .58 (.59) | 5.81 (5.92) | 24,325 (25,816) | 15,671 (15,962) | |

| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION | | | | | | | | | | | |
|--------------------|---|---------|--------|-------|-------|-------|-------|-------|-------|---------|----------|--|
| | 178-128 | 128-108 | 108-88 | 88-68 | 68-58 | 58-48 | 48-38 | 38-28 | 28-17 | 17-CR'S | CR'ST-12 | |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | |
| May 1940 | | | | | | | | | | | | |
| June 1942 | | | | | | | | | | | | |
| Nov 1942 | | | | | | | | | | | | |
| Oct 1944 | 16 | 4 | 7 | 10 | 6 | 10 | 15 | 16 | 16 | | | |
| Feb 1949 | 13 | 4 | 5 | 9 | 5 | 7 | 11 | 14 | 14 | 16 | 2 | |

| 26, DATE OF SURVEY | 44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR | | | | | | | | | | | | | | |
|------------------------------|---|---------------------|--------------------|---------------------|---------------------|---------------------|-----------------------------------|---------------------|-----------------------------------|-----------------------------------|------|------|------|------|------|
| | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | -105 | -110 | -115 | -120 | -125 |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION | | | | | | | | | | | | | | |
| May 1940 | (11 30 | 23 22 | 3 7 | 26 10 | 16 18 | 2 13 | South Canadian Arm Conchas Arm | | | | | | | | |
| June 1942 | (6 20 | 3 21 | 4 12 | 4 12 | 22 13 | 14 27 | 18 5 | 2 14 | South Canadian Arm Conchas Arm | | | | | | |
| Nov 1942 | (6 1 | 2 0 | 5 1 | 8 2 | 16 19 | 16 57 | 29 5 | 16 14 | 2 3 | South Canadian Arm Conchas Arm | | | | | |
| Oct 1944 | | | | | | | | | | | | | | | |
| Feb 1949 | | | | | | | | | | | | | | | |

| 45. RANGE IN RESERVOIR OPERATION | | | | | | | |
|---|------------|------------|----------------|------------|------------|------------|----------------|
| WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. | WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. |
| 1939 (9 mo) | 4147.00 | | | 1945 | 4197.20 | 4194.22 | 97,957 |
| 1940 | 4154.25 | 4147.05 | 46,835 | 1946 | 4201.13 | 4192.05 | 137,573 |
| 1941 | 4206.14 | 4153.10 | 993,933 | 1947 | 4202.46 | 4199.00 | 129,329 |
| 1942 | 4208.41 | 4197.75 | 1,147,300 | 1948 | 4201.46 | 4195.63 | 154,702 |
| 1943 | 4200.19 | 4197.86 | 172,956 | | | | |
| 1944 | 4201.71 | 4194.46 | 158,836 | | | | |
| (The April 1941 flood filled the conservation pool, which has remained full most of the time since that date with overflows resulting from floods of September 1941, April and September 1942, and October 1947.) | | | | | | | |

| 46. ELEVATION-AREA-CAPACITY DATA | | | | | | | | |
|----------------------------------|--------|-----------|-----------|-------|-----------|-----------|-------|-----------|
| ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY |
| | Acres | Acre-feet | | Acres | Acre-feet | | Acres | Acre-feet |
| 4230 | 16,396 | 746,091 | 4170 | 4,917 | 151,721 | 4120 | 1,038 | 19,094 |
| 4218 | 13,552 | 566,163 | 4160 | 3,774 | 108,479 | 4110 | 676 | 10,610 |
| 4201 | 9,593 | 370,185 | 4150 | 2,892 | 75,305 | 4090 | 250 | 1,847 |
| 4190 | 7,666 | 275,641 | 4140 | 2,153 | 50,150 | 4073.5 | 0 | 0 |
| 4180 | 6,123 | 206,909 | 4130 | 1,532 | 31,823 | | | |

| | |
|-------------|--|
| 47. Report: | Interim Report on Sedimentation in Conchas Reservoir, South Canadian River, New Mexico, September 1943 |
|-------------|--|

| | | | | | | | |
|--|--|------|------|-----------------|------|------|------|
| 47. REMARKS AND REFERENCES | | | | | | | |
| Average of all samples secured from reservoir area has the following gradation: | | | | | | | |
| MIT Classification | | Clay | Silt | Silt | Silt | Sand | Sand |
| Percent | | 23 | 14 | 19 | 21 | 17 | 5 |
| 1/ This area has not been subdivided. | | | | | | | |
| 2/ Conchas Arm, 13.8 miles. In each case, lengths are those along original channel to intercept at elev. 4230. | | | | | | | |
| 3/ This figure affected by water taken out above reservoir for irrigation. | | | | | | | |
| 4/ Figures in parentheses pertain to deposits above and below spillway crest. | | | | | | | |
| 48. AGENCY SUPPLYING DATA | | | | 49. DATE | | | |
| Dept. of the Army, Corps of Engineers, Albuquerque District. | | | | 11 October 1949 | | | |

RESERVOIR SEDIMENTATION DATA

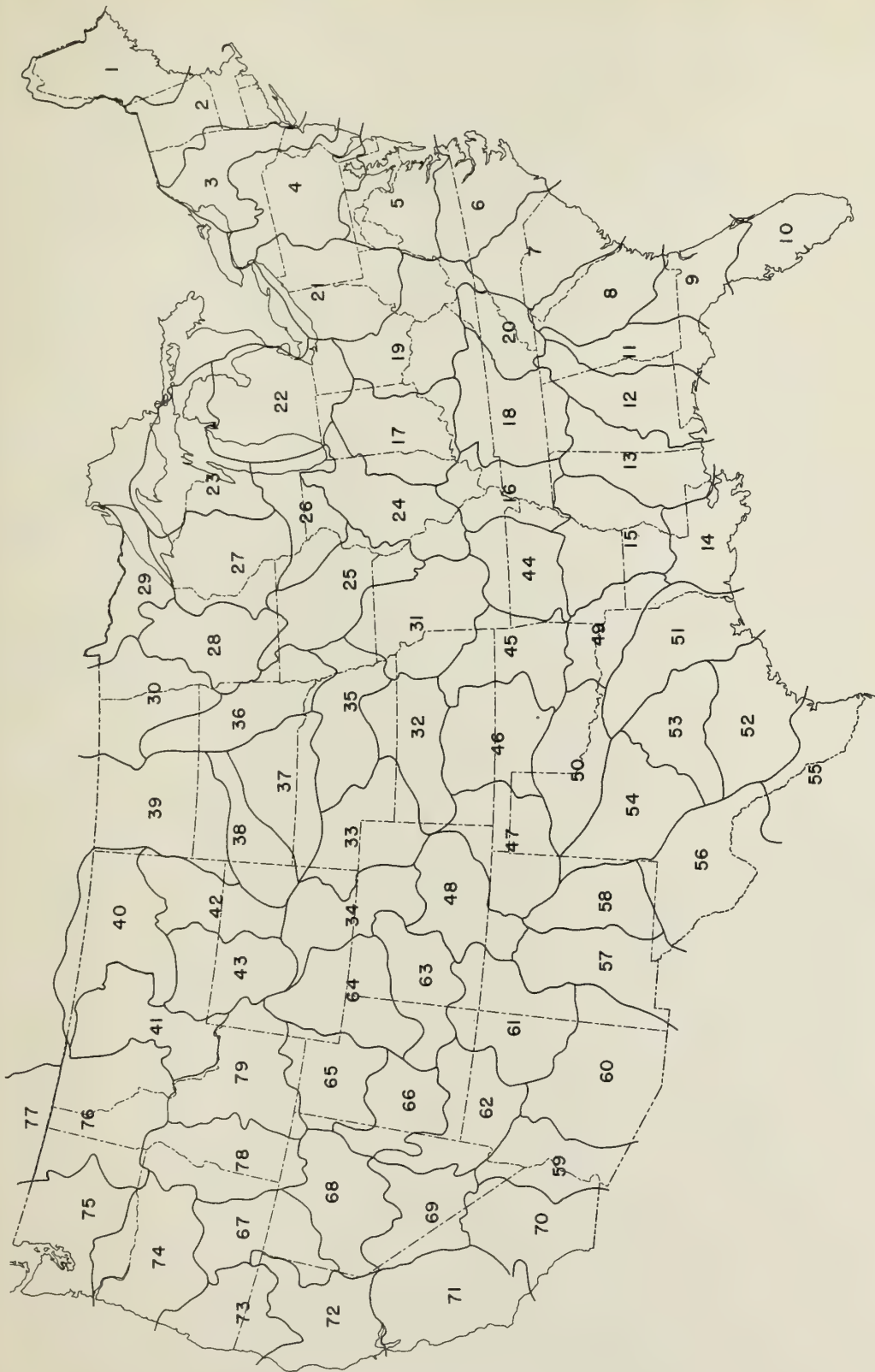
NAME OF RESERVOIR

DATA SHEET NO.

| | | | | | | | | | | | | | | | | |
|--------------------|---|--|---------------------------------|-----------------------------------|-----------------------------------|-------------------|--------------------------------------|---|-----------------------------------|---------------|---------------------------------|---------------------|------------------------|------------|----------------------------------|--|
| DAM | 1. OWNER | | | 2. RIVER | | | 3. STATE | | | | | | | | | |
| | 4. SEC. TWP. RANGE | | | 5. NEAREST TOWN | | | 6. COUNTY | | | | | | | | | |
| | 7. STREAM BED ELEV. | | | 8. TOP OF DAM ELEV. | | | 9. SPILLWAY CREST ELEV. | | | | | | | | | |
| RESERVOIR | 10. STORAGE ALLOCATION | | 11. ELEVATION TOP OF POOL | | 12. SURFACE AREA ACRES | | 13. STORAGE ACRE-FEET | | 14. ACCUMULATED ACRE-FEET | | 15. DATE STORAGE BEGAN | | | | | |
| | a. FLOOD CONTROL | | | | | | | | | | | | | | | |
| | b. POWER | | | | | | | | | | | | | | | |
| | c. WATER SUPPLY | | | | | | | | | | | | | | | |
| | d. IRRIGATION | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | | | | | |
| | e. CONSERVATION | | | | | | | | | | | | | | | |
| | f. INACTIVE | | | | | | | | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR MILES | | | | | | 18. AV. WIDTH OF RESERVOIR MILES | | | | | | | | | |
| | 18. TOTAL DRAINAGE AREA SQ.MI. | | | | | | 22. MEAN ANNUAL PRECIPITATION INCHES | | | | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA SQ.MI. | | | | | | 23. MEAN ANNUAL RUNOFF INCHES | | | | | | | | | |
| | 20. LENGTH MILES | | | | | | 24. MEAN ANNUAL RUNOFF AC.-FT. | | | | | | | | | |
| | 21. MAX. ELEV. MIN. ELEV. | | | | | | 25. CLIMATIC CLASSIFICATION | | | | | | | | | |
| SURVEY DATA | 26. DATE OF SURVEY | | 27. PERIOD YEARS | | 28. ACCL. YEARS | | 29. TYPE OF SURVEY | | 30. NO. OF RANGES OR CONTOUR INT. | | 31. SURFACE AREA ACRES | | 32. CAPACITY ACRE-FEET | | 33. C/W RATIO AC.-FT. PER SQ.MI. | |
| | | | | | | | | | | | | | | | | |
| | 26. DATE OF SURVEY | | 34. PERIOD ANNUAL PRECIPITATION | | 35. PERIOD WATER INFLOW ACRE-FEET | | | | | | 36. WATER INFL. TO DATE AC.-FT. | | | | | |
| | | | | | a. MEAN ANNUAL | | b. MAX. ANNUAL | | c. PERIOD TOTAL | | a. MEAN ANNUAL | | b. TOTAL TO DATE | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 26. DATE OF SURVEY | | 37. PERIOD SEDIMENT DEPOSITS ACRE-FEET | | | | | | 38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET | | | | | | | | |
| | | a. PERIOD TOTAL | | b. AV. ANNUAL | | c. PER SQ.MI.-YR. | | a. TOTAL TO DATE | | b. AV. ANNUAL | | c. PER SQ.MI.-YR. | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 26. DATE OF SURVEY | | 39. AV. DRY WGT. LBS. PER CU.FT. | | 40. SED. DEP. TONS PER SQ.MI.-YR. | | | | 41. STORAGE LOSS PCT. | | | | 42. SED. INFLOW PPM | | | | |
| | | | | a. PERIOD | | b. TOTAL TO DATE | | a. AV. ANNUAL | | b. TO DATE | | a. PERIOD | | b. TO DATE | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | |
|---------------------------------------|--|------------|----------------|------------|------------|----------------|----------------|----------|-------|--------|------|------|------|------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 26. DATE OF SURVEY | 44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR | | | | | | | | | | | | | | |
| | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | -105 | -110 | -115 | -120 | -125 |
| | PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 45. RANGE IN RESERVOIR OPERATION | | | | | | | | | | | | | | | |
| WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. | WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 46. ELEVATION-AREA-CAPACITY DATA | | | | | | | | | | | | | | | |
| ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | | | | | | | |
| | | | | | | | | | | | | | | | |
| 47. REMARKS AND REFERENCES | | | | | | | | | | | | | | | |
| 48. AGENCY SUPPLYING DATA | | | | | | 49. DATE _____ | | | | | | | | | |

INDEX OF RIVER BASIN MAPS



*Index number corresponds to first of two numbers
in summary table, which appear in column headed
"Data Sheet No."*

13288







NATIONAL AGRICULTURAL LIBRARY



1022859025